

Meeting Summary – Adelaide Community Liaison Committee #3

Attn.: CLC members, NextEra Staff

Subject: Adelaide Wind Energy Centre, Community Liaison Committee (CLC): Meeting No.3

December 3, 2014 6:30 pm to 8:30 pm

Gemini Sportsplex - WesCast Room

667 Adair Blvd., Strathroy, ON

Present:

CLC Members

• Kurtis Smith, Carolyn Cornelissen, Ron Peters, Shirley Miller, Dean Jacobs, Fallon Burch,

NextEra Energy Canada

 Michael Lange, Project Manager, Development; Brian Duncan, Business Management; Travis Nels, Business Management; Peter Miller, Operations Manager; Doug McInstosh, Regional Operations Manager

Borea Construction

Scott Langstaff

Natural Resource Solutions Inc. (NRSI)

Charlotte Moore, Terrestrial & Wetland Biologist

AECOM

Avril Fisken, Adam Wright

Absent:

• Donna Hornblower; Mac Parker

Item Discussed	Action
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1. Welcome and Introductions ¹	
Avril Fisken (CLC Chair) welcomed the Committee and members of the public to the 3 rd CLC meeting.	
CLC members and NextEra team members introduced themselves and provided brief details (refer to pg.1 of the Meeting Summary).	
Chair reviewed the Agenda for the meeting (Slide 3)	
1. Introductions	
2. Recap of CLC Meeting # 2	
 Purpose of the CLC 	
 Construction Overview and Update 	
 Public Attendance and Depositions 	
– Minutes (Parking Lot Items)	
3. Activities and Questions/Comments Raised Since the Second CLC	
Meeting	
4. Update on Construction and Installation	
5. Operations and Maintenance - Introduction of Operations Team	
6. Preliminary Discussion of Monitoring and Mitigation Measures (to be	
further discussed at CLC Meeting No. 4)	
7. Depositions, if any requests received	
8. Tentative Items for Discussion at Future CLC Meetings9. Plus/Delta	
No depositions were made for the meeting.	
Chair noted that there is one more meeting scheduled.	
2. Recap of Meeting #2	
Purpose of the CLC:	
A forum for two-way communication between NextEra Energy Canada	
and the public	

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¹ The Meeting Summary is not intended to be verbatim, rather it is provided to Committee members to ensure that key discussions have been accurately captured and that context is provided for readers who were not present at the meeting.



 An opportunity to provide additional information and updates, and to respond to questions or concerns related to: Construction and installation Use and operation Maintenance Retirement of the Facility Project Overview: Class 4 Wind Facility Located in Municipality of North Middlesex, Middlesex County 37 turbines, w/ 80 metre towers and 50.5 metre blades A generating capacity of 60 MWs Public Attendance and Depositions: Local residents in attendance. No depositions. Meeting Summary for our 2nd CLC Meeting: Draft minutes were prepared by AECOM and circulated to the CLC on June 11, 2014 Members were asked to advise AECOM of any errors, omissions or changes by June 25, 2014 All recommended comments/changes were incorporated and the minutes were posted on NextEra's publically accessible website on June 27, 2014 CLC members were also emailed the final minutes on June 25, 2014 Chair enquired if the minutes are providing enough information to the Committee. No comments were received. NextEra (Mike L.) reviewed slide 6 General Contractor is Borea Construction Canada 42 southwestern Ontario Companies used (subcontractors and suppliers) on the Adelaide project. There is at least \$40M in contracts with subcontractors and suppliers in the southwestern Ontario region 	Item Discussed	Action
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	in the southwestern Ontario region.	



Item Discussed		Action
around 150.Indirect economic be restaurants, home im	duals on site including subcontractors was nefits have not been measured, but local hotels, provement stores, gas stations, machine shops, res have seen an increase in business since the	
Projected Economic Impact		
Construction Jobs: Full Time Operations Jobs: Capital Expenditures: Corporate Income Tax: Landowner Payments: *Estimated over first 20 ye	\$ 13 Million*	
economic benefits? Scott L No, there is not a diproject that came on-line, so Bluewater and Adelaide, who was more difficult for Borea out; hiring local contractors is locally and this drew from local	this was subcontracted increased the local strect correlation. Bornish was the first NextEra Borea self-performed a lot of the work. For ere a lot of work came on-line at the same time it to do the work. So (Borea) subcontracted work for this work. A lot of union workers were hired cal unions. This gave them work in the winter, have available and also meant they could hire work.	
Mike L At this point we ha this internally if there is a de project in hindsight. This bei	indirect local economic benefits? ve no plans to measure this; NextEra can discuss sire to study the economic benefits, looking at a ng said I am not sure if we could provide project as it is currently ongoing.	
learned from this business not benefits of wind and solar polar Brian D NextEra has a lot of operations but not from an experience of the solution of the s	f lessons learned from the construction and	



Item Discussed	Action
context? This may be difficult to measure and at this time NextEra doesn't have plans to measure this.	
Since you are going to be around for 20 years this may be something worthwhile to address. This is something that we can certainly look at and put together some numbers. The Community Vibrancy Funds (CVF) does not contribute to local economic benefits, but does provide social and other benefits? There are some economic benefits related to the CVF, and there are some academic models that exist that we can refer to. Although we don't have a specific number, it is safe to say that there are benefits as money is being spent in the community and flowing into the local economy.	NextEra will provide further comment regarding economic / direct benefits and provide information to CLC members and the public once it has been
3. Activities and Questions / Comments Raised since Meeting No.2	compiled.
Chair discussed the 'Parking Lot' items from Meeting #2. • Map of project in relation to the other projects	
 Map of project in relation to the other projects Species at Risk and Habitat Monitoring 	
Chair then asked Mike L. to review the project map (Appendix A)	
Mike L. noted different aspects of the other NextEra projects in the region, indicating that yellow dots are NextEra turbines. Other projects are also noted on the map (Appendix A). Chair asked if there are any questions.	
Why would you not be comfortable showing this information (i.e., turbine locations) for projects not owned by NextEra?	
NextEra (Mike L.) explained that as layouts can change, NextEra wouldn't want to provide inaccurate information. He continued to elaborate, saying that projects will have alternate layouts depending on restrictions that may arise during planning (e.g., any archaeological sites found).	
I'd like to see a map that gives a sense of all the projects in the region, and	



Item Discussed	Action
looks at cumulative impacts in the region. What agency would address this? NextEra (Mike L) suggested that this depends on the issues at hand. Noise and visualization studies fall under the Ministry of Environment and Climate Change (MOECC). The Ontario Power Authority (OPA) would also address some of this.	
If the monitoring shows that some of the migratory flyways go over a number of wind farms, I am curious who looks at the total pathway? NextEra reports on a regular basis the findings from this one project (i.e., Adelaide); I would assume the total cumulative impacts would be addressed at a higher level.	
NRSI (Charlotte M.) answered that the Ministry of Natural Resources and Forestry (MNRF) and the MOECC would look at these cumulative impacts.	
Where can this information be found? Either the MNRF or the MOECC website.	
So we have to rely on the MOECC and MNRF to protect these cumulative flyways? Yes, that is correct.	
Discuss Species at Risk monitoring in the project area, for next meeting. • Has been included as an Agenda Item	
4. Update on Construction and Installation	
Borea Construction (Scott L.) reviewed slide 8, construction Activities.	
Status of Post-Construction Activities	
Construction Clean up, Modifications and Road Repairs: July 2014 onward	
 Waste and debris generated during construction activities to be collected and disposed of at an approved facility. All equipment and vehicles will be removed from the construction area. Reasonable efforts made to minimize waste generated and to recycle materials, including returning packaging material to 	



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suppliers for reuse/recycling.	
2) Reclamation: (August to Spring 2015)	
Stripped soil will be replaced and re-contoured in the	
construction areas and disturbed areas will be reseeded during	
appropriate conditions for germination (as seasonality allows).	
Borea Construction (Scott L.) commented that they have almost finished the construction activities and that compaction and drainage is an issue we continue to address. The wet weather has had an impact on the tile repair as there was a lack of qualified personnel to repair the tile drains. Ongoing repairs will be landowner driven (i.e., landowner to request). We want to ensure that the timing of these repairs works well for the landowners.	
In regards to municipal roads: Mullifarry Road, Brown Road and other roads have been heavily used over the past year. The municipality has already been compensated to deal with the roads at a time which works best for them. The municipality had an engineer drive the roads to assess the costs associated with returning the roads to their original state. In some cases the roads will be completely replaced.	
Update on Project Commissioning and Operations	
 Wind Turbine Commissioning - August 22, 2014. Requires Collection System, Substation, and Turbines to Start Turbine commissioning took place in sequential order prior to the planned Commercial Operation of the Project. Portable generators were used to provide back-feed power for commissioning prior to being connected to the power grid. Commissioning included testing and inspection of electrical, mechanical, and communications operability. A detailed set of operating instructions were followed in order to connect into the electrical grid. 	
NextEra (Doug M.) commented that the turnover between construction and operation was very smooth. Staff is hired and working out of the Bornish office space (operations building at: 32185 Kerwood Rd, Parkhill, On).	
The Commercial Operation Date (COD) triggers the payments to the	



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landowners and community, how many days early was the project operating before COD?	
Mike L Once a turbine gets commissioned, even though the contracted price does not kick in, we have the opportunity to produce electricity at a day to day market rate. I don't think this happened on the Adelaide project but we can provide a clarification for the minutes.	
UPDATE: NextEra did not get day to day market rate payment prior to COD.	
As you made more money, do you plan to share the wealth? NextEra (Mike L.) answered: As this project went COD, there was no additional money made.	
UPDATE: NextEra provided confirmation after the meeting that they had no pre-COD sales.	
Comment: When more money is made, these benefits should be shared with the Community via the avenues that already exist.	
The meeting continued with NextEra (Doug M.) discussing operations	
 The operation phase will be approximately 25 years and the operations building will require full time staff (i.e., site supervisor and wind technicians). Turbines will require scheduled maintenance (i.e., oil change, gearbox cleaning and lubrication, replacement of worn parts). Routine preventative maintenance activities will be scheduled as required, in accordance with manufacturer requirements. Spill prevention best practices utilized during the Construction Phase will also be implemented during operational maintenance. If unscheduled maintenance of a turbine is required (i.e., component failure), then the turbine will be taken out of service until the repair is complete. Larger trucks and cranes may be required periodically for larger repairs, but this is expected to occur infrequently. To monitor subsystems within each turbine and the local wind 	
conditions, a comprehensive control system is installed and networked to the local operator and to NextEra's central operations centre (staff on-site 24/7). The operations building will be notified if an event occurs outside a turbine's normal operating range and the	



Item Discussed	Action
turbine will be shut down. Turbines can be controlled remotely from	
 the central operations centre. Operation decisions based on meteorological data include turbine shut down under icy or extreme weather, and cut-in and cut-out wind speed. 	
Routine maintenance is scheduled a year in advance with the Independent Electricity System Operator (IESO). The IESO is responsible for operating the electricity market and directing the operation of the bulk electrical system in the province of Ontario. We send out "Planned Maintenance Schedule" for the year in advance so they can plan accordingly for the assets being unavailable.	
Daily monitoring information is provided to the maintenance crews and there is a maintenance protocol that is followed. If there is an issue with a turbine, then the protocol states who will be contacted and how it will be resolved.	
Where is all this monitored?	
Doug M.: This occurs at the operations and maintenance building on Kerwood	
Road and Nairn. Monitoring is also done remotely through the company's headquarters located in Juno Beach, FL.	
5. Operations and Maintenance- Introduction to Operations Team	
Operations	
System Maintenance:	
GE 1.62 MW wind turbines are automated and have few	
maintenance requirements. — Initial maintenance of the turbines occurs approximately 500	
hours after initial commissioning and routine preventative	
maintenance activities are scheduled as required. — Maintenance activities include changing of oil and gas filters,	
cleaning of gear boxes, replacement of worn parts and on-	
going inspections.	
 All maintenance activities adhere to the same waste disposal and spill prevention industry best practices undertaken during 	
construction.	
Unplanned Turbine Maintenance: Modern turbines are very reliable and designed to operate for	
 Modern turbines are very reliable and designed to operate for 	



Item Discussed	Action
 approximately 25 years. Minor component failure may occur (i.e. electronic cards, switches, fans or sensors) and can take a turbine out of service until the faulty component is replaced. Replacement of a major component (i.e. gearbox or rotor) is atypical. NextEra would work with the County and the landowner to coordinate the delivery of any large equipment and repairs (if required). 	NextEra to provide clarification in meeting minutes regarding snow removal contract and if there will be
NextEra (Doug M.): – If a turbine faults, Operation team members are notified by phone so they can address the issue as soon as possible. If repairs require replacement of large turbine parts (blade, gearbox, rotors), roads may need to be widened to the construction width again to allow a crane to access the turbine.	access to site
During winter, is the snow removal done at all times to ensure you can access the sites? NextEra (Doug M.): We are looking at getting a contractor for this work. If we needed to get to a turbine we have plows on our company trucks. It is our responsibility to maintain the roads.	
Will the access roads or roads on landowner's properties be maintained? The plan is to get multiple qualified contractors to clear roads when and as needed. I think it could be worthwhile to have regularly cleared roads since maintenance team members like to drive by the turbines regularly.	
Peter Miller - We are in the process of finalizing quotes and hopefully by this time next week (mid to late December 2014) will have the contractor selected and a plan in place.	
UPDATE: The access roads will be cleared of snow on an as needed basis. NextEra has a local snow removal contractor secured for their needs as well as 2- NextEra Plow equipped service trucks.	
Complaint Resolution Process	
 NextEra acknowledges that some members of the community may have concerns regarding construction activities and long-term wind farm operations. 	



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To resolve disputes in a collaborative manner, NextEra follows its	
complaints resolution process.	
 Should any complaints arise throughout the course of the 	
construction, operation and decommissioning phases, a NextEra	
representative will contact the complainant to understand and seek a	
resolution.	
NextEra will notify the local MOE (Ministry of Environment) district	
office of the complaint within 2 business days of receipt of the	
complaint (1 business day if the complaint is related to Ground	
Water).	
The MOE notification will include: Description of the nature of the natural state.	
 Description of the nature of the complaint; Wind direction at the time of the incident related to the 	
complaint;	
Time and date of the incident related to the complaint; and	
 A description of the measures taken to address the cause of 	
the incident and to prevent a similar occurrence in the future	
the molacile and to prevent a similar occurrence in the racare	
No later than three days from when the complaint is heard, we will contact	
the complainant and prepare a written response within five days.	
How many complaints have you received?	
NextEra (Doug M.): Zero for operations and two related to construction,	
related to drainage at a tower.	
related to dramage at a tower.	
NextEra (Mike L.): Just what constitutes a complaint was discussed at great	
length as we wanted to ensure complaints were addressed that needed to be	
addressed, and that we were complying with the requirements of our	
approvals.	
Complaints regarding construction or reclamation would have been followed	Provide
up with Viola Dupuis, a member of the construction team. We can provide	number of and
further details at the next meeting.	types of
	complaints
If somebody has to do tiling in the future, who should we contact and how	received
much notice should be provided if it has to happen over electrical wires?	
NextEra (Doug M. / Peter M.): We can locate that immediately, we have a	
dedicated locator for this work. We have to call Ontario One Call so they can	
send out a notification to all parties affected by digging. You can call us	



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directly. We are required to call Ontario One Call first, and then we can go out and dig.	
If it is easier to address this with NextEra, it would be nice to have one point of contact.	
Contact information provided below.	
 Information requests and landowner Inquiry about the local operations and maintenance can be addressed to: 855-552-9872. Any concerns or complaints regarding the Adelaide facility can be made to the Global Response Line at 877-463-4963 	
Peter Millers Information: Peter Miller Associate Wind Site Manager, Jericho 32185 Kerwood Rd, Parkhill, ON NOM 2K0 mobile 519-671-0876 office 519.294.1006 ext *210	
6. Preliminary Discussion of Monitoring and Mitigation Measures	
NextEra (Doug M.) reviewed the Monitoring and Mitigation Measures (slide 14)	
Environmental Effects Monitoring Plan:	
 In accordance with the requirements of Ontario Regulation (O.Reg.) 359/09, the Environmental Effects Monitoring Plan addresses various elements including, but not limited to, heritage and archaeological resources, natural heritage features and noise. 	
• Noise	
 The Provincial Environmental Protection Act (EPA) requires that noise emissions for any new projects must not have any adverse effects on the natural environment and not exceed 40dBA when wind speeds are of 6 metres/second and below. NOTE: the allowable noise levels increase during higher wind speeds. 	
 Prior to construction, a Renewable Energy Approval (REA) was obtained with measures to be adhered to, i.e., noise modeling by independent consultants. 	



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 Noise emissions will not likely change unless there is damage to the equipment (immediately recognized by the computer monitoring system and addressed by the operations team). Acoustic Emission (cumulative) and Emission (individual turbine tested) testing will be conducted following COD. Results are then reported to the MOECC. 	
Through the process, the three best areas which would be most accurate representation of the project's noise impacts is established.	ſ
Doug M. Reviews SAR monitoring	
Species-At-Risk (SAR) Monitoring	
 Species at Risk mortality monitoring occurred during the summer of 2014 Monitoring was conducted in accordance with MNR requirements All 37 turbines were searched monthly No Species at Risk mortalities were documented during 2014 Annual report will be prepared in winter 2014 Species at Risk Monitoring continues for the life of the project 2015 Species at Risk monitoring will begin May 1 Bird and Bat Post-Construction Monitoring Monitoring will be conducted in accordance with requirements of the REA and MNR Guidelines Monitoring will begin May 1, 2015 Turbine searches will occur twice weekly from May 1st through October 31st, and raptor surveys will continue weekly from November 1st through November 30th. Correction factors are applied in order to calculate overall estimated mortality rates across the project Annual report provided to MNR by March 31 following each year of monitoring 3 years of monitoring are required 	
It should be noted that our monitoring efforts are above and beyond the required three years of monitoring. We did not start the post construction bird and bat monitoring this year because the site went COD late in the migratory period. So at the request of the MNRF, we decided to wait until	



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next may (2015) to provide a full three years of monitoring (May through	
November).	
What happens if an animal dies one day after the summer monitoring? This	NRSI to
doesn't seem to be accurate as remnants of the animals will be gone by the	provide more
next year.	details for CLC
Doug M.: In a 50 meter radius, we will observe animal remains to understand	meeting No. 4.
how long a carcass will last before it is carried away by a scavenger. There is	
also a protocol in place to test the searcher's efficiency within a radius of the	
turbines. Using a percentage ratio to multiply the found carcasses by surface	
area, by those that may have been carried away by scavengers and those	
missed in human error (scavenger rate and searcher efficiency) we can create	
a likely number of possible deaths.	
If things decompose quickly, say after a weeks' time there is nothing left of	
the carcass, how do you know what was there?	
Through the protocol established by the MNRF, we can confidently say that	
we have modelled for wildlife mortality. Further details will be provided at the	
next meeting.	
Natural Heritage Monitoring	
 Post construction monitoring of certain wildlife habitats is 	
required by the REA	
 Bald eagle nesting, foraging and perching habitat 	
 Bat maternity colony habitat 	
 Habitat monitoring will begin in 2015, in accordance with the 	
requirements of the REA	
3 Years of habitat monitoring is required A second results of the MAND to December 24 of	
Annual reports will be submitted to MNR by December 31 of	
each year of monitoring	
Will the annual reports be placed on the website? NextEra (Brian D.): After they are submitted to the MNR, we can provide a	
summary and post on the website.	
http://www.nexteraenergycanada.com/projects/adelaide.shtml	
intep.//www.inexteracticigycanada.com/projects/adelaide.sittiii	
So the turbines turn at different speeds, and the power they generate is at	
different frequencies. How do you take that change in power frequency and	
"clean" it up before it hits the grid?	
Doug M.: In order to connect to the power grid, generating stations must	



Item Discussed	Action
operate at the exact same "frequency" as the grid which is a constant 60 Hz. Since the wind turbine generators are variable speed depending on wind, the output in Hz varies as well. In order to connect to the grid the power is converted from Alternating Current (AC) to Direct Current (DC) and then back to AC at exactly 60 Hz.	
There are two turbines that I often see which are located close to eacgh other, sometimes the turbine speed will change and will be different than the other, why is this? The blades are an airfoil and get pulled at different speeds. These get pulled in a circle. As we want to run at 1.62 MW of speed, this is not always possible. At lower winds the blades will change, but always pull as fast as they can. Then when there is too much wind the airfoil will 'feather' to lessen the efficiency so they don't become more than preferred RPM. All corrections are made by the turbine and the only time this occurs is when the turbine adjusts the rotational speed to ensure that the needed speeds are reached. Two turbines side by side will actually have different needs and have active pitch control.	
On the telephone town hall, NextEra mentioned 14 million dollars going to the municipalities, tonight NextEra has said 8 million. Can someone go through the math to provide me details on this? My math does not add up anywhere near to this. These calculations are based on the most recent projections; NextEra can provide more information before the next CLC meeting.	Derek to provide further information on revenue and property tax calculations before CLC meeting No. 4.
7. Depositions if any Received	
No depositions were received for this meeting.	
Chair reminded the Committee that anyone is able to provide a deposition to the Committee; people wishing to do so should submit an application to the CLC Chair one week in advance of the next meeting. It is the Committee's role to review and approve any deposition.	
8. Tentative Items for Discussion at Future CLC Meetings	



Item Discussed	Action
 CLC Meeting #4 Update on Operations and Maintenance Monitoring & Mitigation Measures Post-Construction Activities (e.g., reclamation or required repairs) Provisions for Decommissioning Other 	
Any other topics for discussion? If you have any just let us know and we will be sure to get this in the Agenda.	
Chair reviews the timeframe for next meeting, tentatively targeting June timeline for 4th meeting. Chair asks if there is a good time to have the next meeting. It is agreed to stay clear of the summer months, and keep the next meeting scheduled for June.	
NextEra Josie Bird noted there is a chance for Committee to visit the Project Operations building and tour the site prior to 4 th CLC meeting with the regular CLC meeting following. Also NextEra noted that if any CLC members know of any interested groups or schools that would like to take a tour of the site please let us know. We welcome this and would love to have people come out if they are interested. They can contact Josie directly (contact info below).	CLC Committee to visit the Project Operations building and tour the site
Email: joselen.hernandez@NextEraEnergy.com Phone: 561.694.6225	prior to meeting No. 4.
Chair Confirms that the next meeting can include a visit of the site.	
Adam Wright confirms that he has sent out an effectiveness evaluation survey to ensure that CLC members are getting the most out of the committee, and that it is meeting their needs. Please fill this if you have any concerns or suggestions.	CLC members to complete surveys and return to Adam W. before meeting No. 4
Meeting Wrap Up Chair adjourns meeting.	
Chair aujourns meeting.	



PARKING LOT

Parking Lot Topic	Response / Action
Will NextEra measure the indirect local economic benefits?	NextEra will provide further comment regarding economic / direct benefits and provide information to CLC members and the public once it has been compiled.
Species at Risk monitoring in the project area.	NextEra will provide further information at CLC meeting No. 4.
Did Adelaide project have opportunity to produce electricity early?	Addressed in Meeting Summary (pg. 8).
Snow removal to access roads.	Addressed in Meeting Summary (pg. 10).
Complaints received regarding Adelaide project.	NextEra to provide number and type of complaints received to date for CLC meeting No. 4.
Avril to collect the 1-800 numbers for ONE calls.	Provided in Meeting Summary (pg. 12).
Natural Heritage Monitoring	NRSI to provide more details for CLC meeting No. 4.
Member of the public (Deputy Mayor) would like further information on the revenue and property tax calculations.	Derek to provide further information on revenue and property tax calculations before CLC meeting No. 4.
Committee to visit the Project Operations building and tour the site prior to meeting No. 4.	AECOM to contact NextEra to arrange tour.
NextEra sent out an effectiveness evaluation survey to make ensure that CLC members are getting the most out of the committee.	CLC members to complete survey if they have any concerns or suggestions and return to AECOM (Adam W.) before meeting No. 4.



Appendix A

FiT Projects in Southwest Ontario

