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ONTARIO ENERGY 50

Agri-Energy Producers' Association of Ontario (APAO) Submission to the OEB Regarding Board File EB-207-0031

The Agri-Energy Producers' Association of Ontario (APAO) represents primarily farmers wishing to building anaerobic digesters on their land and sell the electricity they generate from burning methane to the grid. The majority of proposed farm-based projects are below 500kW.

APAO commends the Government of Ontario for making the decision to move away from the principle of deep entry, whereby distributed generation was required to cover all the costs of connection, no matter how far downstream and no matter how disproportionate to the scale of the project. Deep entry is recognized as a substantial barrier to entry for renewable generation. The new policy moves towards shallow entry to a significant extent, and as such is welcome. However, generators must still potentially bear highly variable costs which can be very significant in comparison with the overall cost of the project. The transparency of specific connection procedures and connection cost calculation is very low, which will act as a significant barrier to renewable generation. In addition, both timescales and the necessity for a case-by-case negotiation with the relevant utility over connection costs will remain problematic under this regime.

APAO is very pleased to note the OEB's new objective on promoting the use and generation of electricity from renewable energy sources in a manner consistent with the policies of the Government of Ontario. Biogas generation is consistent with government policy in more ways than almost any other form of renewable energy, due to the numerous environmental and rural economic development benefits, which are in addition to the benefits conferred in energy terms. In order to capture these advantages, it is necessary to ensure that small farm-based systems in relatively remote areas be both financially viable and able to connect to the grid. If these conditions are met, then it will be possible for manure to be treated in the most environmentally responsible manner, which is to use an anaerobic digester to extract the energy content while leaving behind a stable and odourless residue which will not pollute water resources when applied to land.

The criteria used by the OEB in its decision-making process (namely the anticipated beneficiary of investment, efficiency through locational price signals and harmonization), while being reasonable for larger systems with locational flexibility, do not take into account the circumstances of locationally fixed small-scale generation. While a project proponent may arguably be the prime beneficiary of an investment in financial terms, there is a substantial public interest in enabling small biogas projects to proceed. The environmental impact of

agricultural operations incorporating a biogas digester is greatly reduced, the employment potential is significantly increased, and the project is able to provide grid support in rural areas.

These farm-based projects have no choice as to where they locate, unlike commercial projects such as large wind or solar farms. Imposing locational price signals on such projects merely means that many will not be viable, as the cost of connection will be magnified to a point where it will be entirely disproportionate to the scale of the project. It will not just be the project proponents who are disadvantaged if this happens. APAO's opinion is that projects below 500kW, should have locational price signals muted. The most appropriate way to achieve this is the method employed for small projects in the Netherlands, where there are standard connection designs published and the connection cost imposed on the project represents an average for that class of connection, rather than the actual cost in each specific case. There is no case-by-case negotiation with the utility company. This greatly increases the transparency of the process, thereby alleviating a significant barrier to entry for small generation. APAO strongly believes that small projects should be subject to a much simpler set of rules than large commercial-scale operations where locational price signals are entirely appropriate.

APAO notes that although the OEB mentions timely expansion and reinforcement of transmission and distribution systems, there is no definition of timely and no proposed mechanism for the delivery of this objective. As the potential for long delays is significant, given the high projected demand for grid infrastructure modifications, a mechanism imposing some form of accountability for time would be appropriate. For instance, some German provinces use an administrative court system to maintain some oversight of the utility companies and to enforce timescales contained in regulatory instruments. Long construction delays would greatly limit the amount of renewable energy able to be brought on to the grid, the capacity of which is currently quite limited. Expansion needs to be a high priority, but this will not happen without oversight and accountability.

APAO proposes a connection regime based on shallow entry, where generators are only responsible for the cost of the connection assets. If generators must pay a proportion of the cost of expansions, including potential transmission system upgrades which are not included in the connection cap, then the cost of connection can still easily be too high in many areas to make a project financeable. Locational price signals could better be conveyed through Use of System charges than by paying partially for expansions Use of System charges can be positive or negative, in order to provide both incentives and disincentives to generation in a given location. This is a better approach than the use of a disincentive only through charging for a higher percentage of the connection infrastructure.

Please find enclosed a print-out of a powerpoint presentation on the OEB proposals.

Regards,

Nicole Foss

Executive Coordinator

Agri-Energy Producers' Association of Ontario

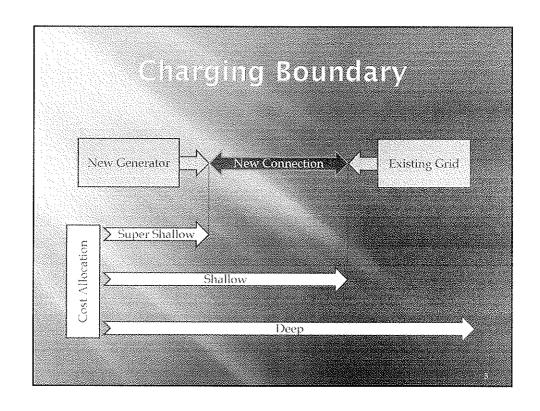
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GREDGONNECTION PROPOSALS

Micole Foes APAO

The Connent Situation

- of on charging is based on deep
- is means that goverators are responsible for the costs of connection, no matter how far wastream and no matter how toportionate to the scale of the project.
- The Green Energy Act changes this principle.
- The new OEB proposals are the first step towards developing a new position.



New OEB Objective

he use and generation of electricity
the energy sources in a manner
that the policies of the Government
that the including the timely expansion or
the exemple of transmission systems and
thoughousystems to accommodate the
the of the energy generation

A Missi Sasp Towards **a Broader** Mandate

The consistent with the policies of Contario..." is not clear of Contario..." is not clear the back that are said to refer only to energy test, but it should encompass broader connectal and social goals.

The contact of energy regulators and the basis is of energy regulators and formalism of distribution companies.

A European Example

of the Danish transmission company
des the following in relation to
a substant and reinforcements:

planning must support the objectives laid to man Danish and European energy policies, to make the Danish government's Energy 2025. Furthermore, the development of the rity and gas systems must strike a later and take account of the wish for a high concerns, market mechanisms, environmental concerns and socio-economic factors."

Con Responsibility Criteria

- and many of the investment
- is to promote connections that
 the require as hims additional infrastructure as
- The monitation (aligning cost responsibility to the obligation for distributors to plan expensions of their systems)

hivesimieni Callegories

- Senewable Establing Improvements
- atments in lines or equipment made in specify for such a energy generation, but not tied to a such a project.

Connection Assets

Pasets are "that portion of the om used to connect a customer of the second system, and says that is distribution system, and says the point of the customership demarkation point the customer."

Gost Responsibility for Compenion Assets

will continue to be responsible connection assets.

massion assas are not expected to be shared.

- cost will be determined on a case-by-case matrion between the generator and the
- This cost can vary substantially with location and between utility companies.

Commedium Cost Commendations for Large Scale Projects

le renewable energy generators are

and ance to be are appropriate in order to the limit best use is an do of both existing trucking and sconce resources for new grid towards.

- e and connection designs should be published.

 The maximize transparency.
- Connection costs should be standardized as much as possible across the province, and case-by-case agoustion with utility companies should be manimized.

Connection Cost Opportunity of Small Projects

(<500kW) lit the ideal of distributed they help to balance generation and the collection and the collection.

ing the should proceed and are not appropriate as could eiten make these projects non-viable in

- The connections be to be seen that classes of connections be to be seen which the connection cost would be seen along that applying the actual cost in each of the seen applying the actual cost in each of the seen applying the actual cost in each of the seen applying the actual cost in each of the seen applying the actual cost in each of the seen applying the actual cost in each of the seen actual cost in each o
- This is dance in the Netherlands for connections below 1000 V, but is considered here only for smaller projects due to larger distances and greater local grid variation in Oniatio.

Expansions

as a reconstruction are the large to the large terms. to a request for additional street could not be

Secretaria de la Constantida (Constantida (Constantida (Constantida (Constantida (Constantida (Constantida (Co

- and accommentable products of three-phase and any a line with a larger size conductor
- nations an existing line to provide an additional course the generator course a lower voltage line to higher voltage
- Expansions primarily benefit the generator, but may later benefit other generators or load ericken nichts

Costs exponsibility for - Englandsions

an about this general by a specific generator

The proposes that the cost should be the cost of the contract would have had to the cost of the with some potential for the cost of the cos

- CEB proposal does not represent pure shallow the strain the generators would pay only for the outcomes assets
- Where an expansion is approved or mandated by the OEB and not triggered by a specific generator connection, the distributor will cover the cost.

e as i Responsibility for Downston Upgrades

that transmission upgrades that transmission upgrades connection would be a specific generator.

hase costs can be very significant, they would very likely act as a barrier to affected projects.

en.

Wed amen for Cost-Sharing

oses to cover the cost of expansion up to the contrator to cover costs in excess of

The restriction is a second to be included in the

The remainder energy expansion cost cap is based on sections which was a section of the section

have a set at the bottom end of the average range bases are a survey of 500 projects.

The generator's contribution will generally be considerable, adding significantly to the locational pricing aspect.

e panaion **Cos**t kacamman**dado**n

terminated that the OEB adopt a pure

pproach mae and a second be entirely borne describing on the transmission company Francis varadisiro and accordinadase.

re resessionly be socialized across the esses so as to hand the builden on the e : Persone di filosopo e se

Sunonean experience clearly demonstrates that Shallow enlay is an important factor in the development of renewable energy generation.

Renewable Enabling in provements

and the content of th to enhance the ability of a sensitive roms visitoria to accommodate increased collegio de la contraviva del los seconos <mark>validos n</mark>o

- sewabie enabling impro<mark>vements include:</mark>
 - Wideliteation to control 2-way electrical flows
 - and the second of checking all protection countries
 - Visiting allow of voltage regulating equipment
 - Astronomical amiteislanding protection

Cosi Responsibility for Renewable Enabling Improvments

- distenewable enabling
 being of benefit to the
 statement is a sting and future
- OFB therefore proposes that these mounts be covered by the distribution
- bits recommended that this proposal proceed as chaffed

To see Responsibility for twestments Wade in according to Demand

- The state investments made in the state of the state of the state of the broader state of the
- a restiments would therefore be paid for by the distributor and recovered from the natebase
- It is recommended that this proposal proceed as drafted

Language and Accountability

insian and reinforcement is a stated to the series is no mechanism for the series of timescales.

defined timely, and accountability

sould be explicit targets for renewable managers for missing and penalties for missing

in Casmany an arbitration board, or administrative count (Verwaltungsgericht), holds utility companies accountable for the timely performance of outlicky mandated duties.

8.6

OES Expediations

species that generators will site and the site is to take advantage of the site is a suitable, such that their the sections will manimize the need for the site and investments

- that additions and modifications to are envisaged as a very long term project.
- Renewable generation is expected to rely on limited capacity for the foreseeable future.

Guraic Resolvery from the Ratebase

Theresy Act will introduce a osi recovery through the by all consumers

Las assesses and exemply and all the

will be an essential provision, as the on ratepayers in different areas could them se vary substantially.

iλ.

Cost Recovery from Generation

onsider Use of System charges at a later med Distribution Connection Cost

out section charge could involve payments in act as an incentive or a manager to act as an incentive or a manager to build in a particular location.

- end sharpen price signals considerably, which to be appropriate in some cases and not in others.

 If the best use of limited to be the best use of limited t
- Small systems below 500kW should be exempt from such charges.

Europe

If benefit from incorporating the men to transparency, both in individual at the EU level.

no 2501 // Et an renewable energy requires since connection simulards, clear rules on costtions and comprehensive cost estimation.

2003/54/EC on electricity liberalization transparency.

to member states (eg Belgium, Denmark, common Neiherlands) to require published connection standards and tariffs which must be approved by regulators and are subject to amendment by regulators.

eyrew of Recommendations

distosophy should be shallow entry.

and be responsible only for the cost of the

nation projects were to dealt with under an enhanced shallow may equing where they would pay an averaged connection asset to arrive than the admittaces.

making as well as renewable enabling improvements overed by the distributor or transmission company ency should be very a high priority, therefore connection and representative costs approved by the regulator points ted

the state and negotiations with utility companies should be standard to herever possible, as these reduce transparency. There should be a mechanism similar to a German administrative court in order to ensure accountability for expansion and removement timescales.