



Active Network Management

Presentation of GenAVC
for Developers and Operators of
Distributed Generation



Agenda

- Econnect and GenAVC
- Generator Requirements
- GenAVC – how it works
- Implementation of GenAVC



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Organisation

UK	 Econnect Consulting	Feasibility & Design
Ireland	 Econnect Consulting	Commercial & Regulatory
Australia	 Econnect Ventures	Products & R&D
New Zealand	 Econnect Construction	Construction



Econnect Ventures



Research and Development

Redox flow batteries
Grid connection website
Pulse tidal generation
DFIG fault ride-through

Products and Network Solutions

GenAVC
Load controllers
Minigrids



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GenAVC

- Active Network Management System
- Voltage control of distribution network with generation
- Adjusts network voltage for more generation output
- Keeps network voltages in limits



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Generator Aims

- Least cost development
- Maximise generation
- Shortest development time
- Create revenue



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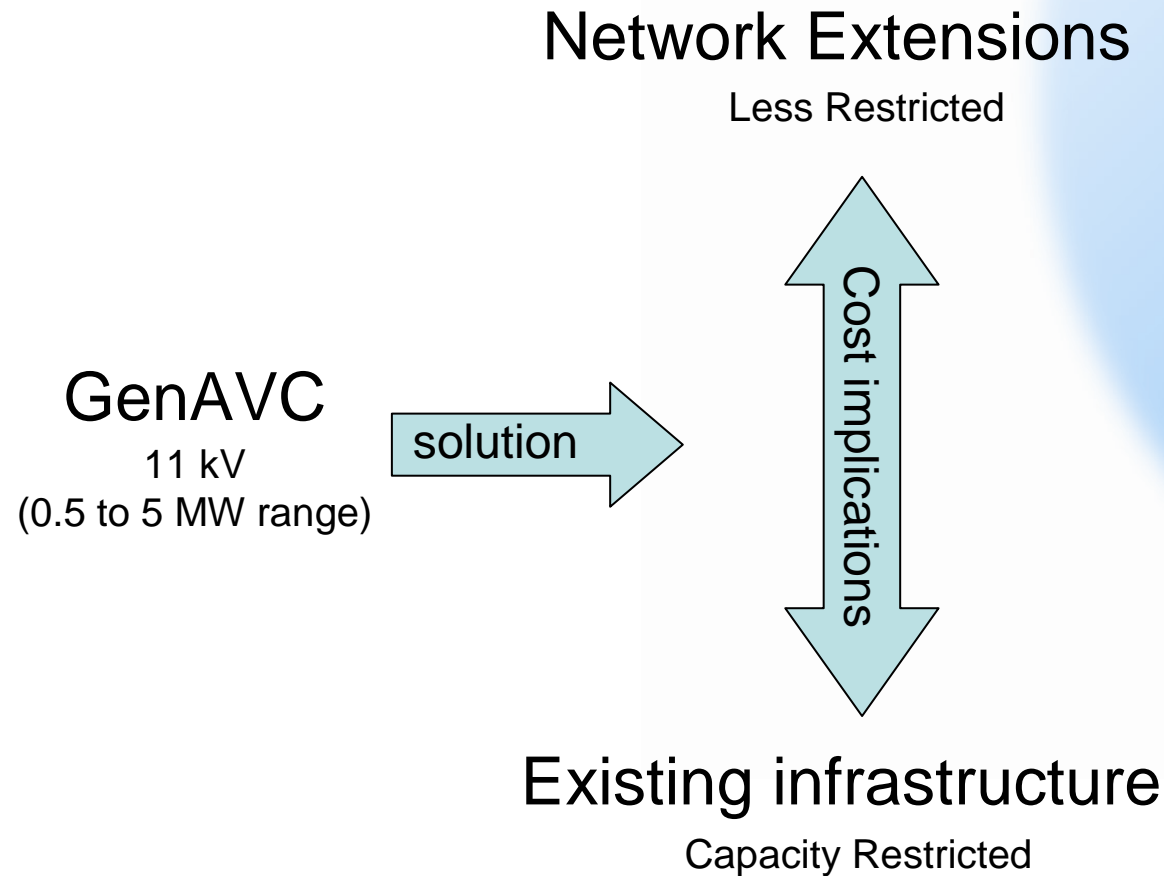
GenAVC Benefits

- Low development cost
 - Best use of existing network capacity
 - Minimum new infrastructure required
- Maximise generation
 - Use enables DNO to offer large capacity connection
 - Allows export of more power
- Short development time
 - No wayleave / consents required
- Increased revenue

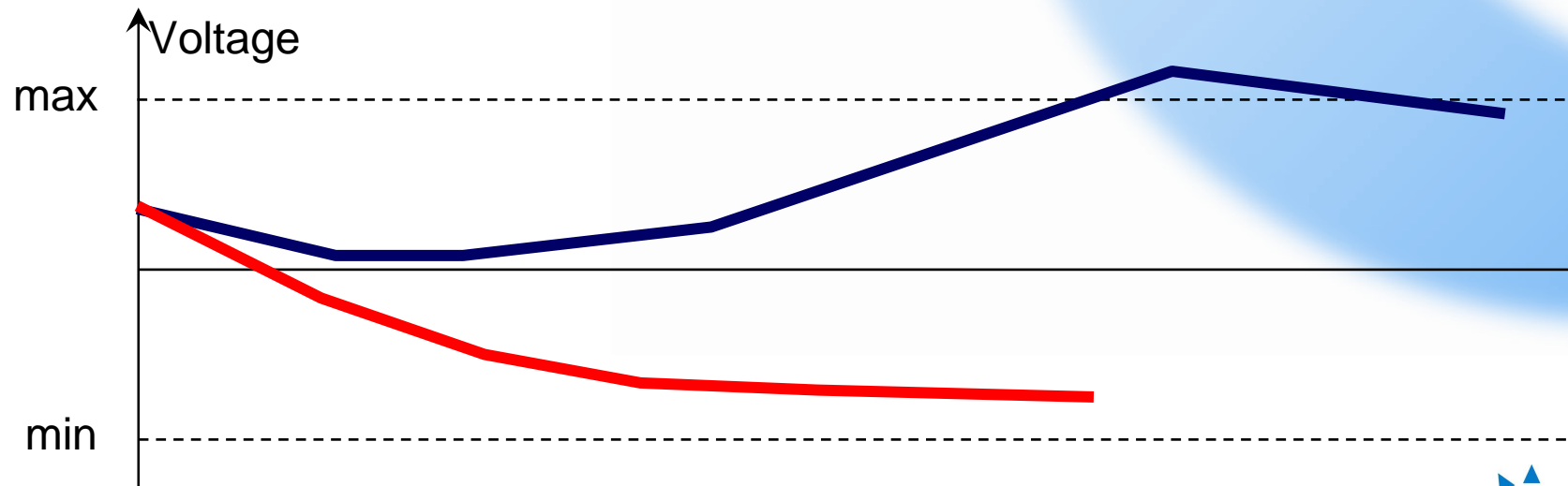
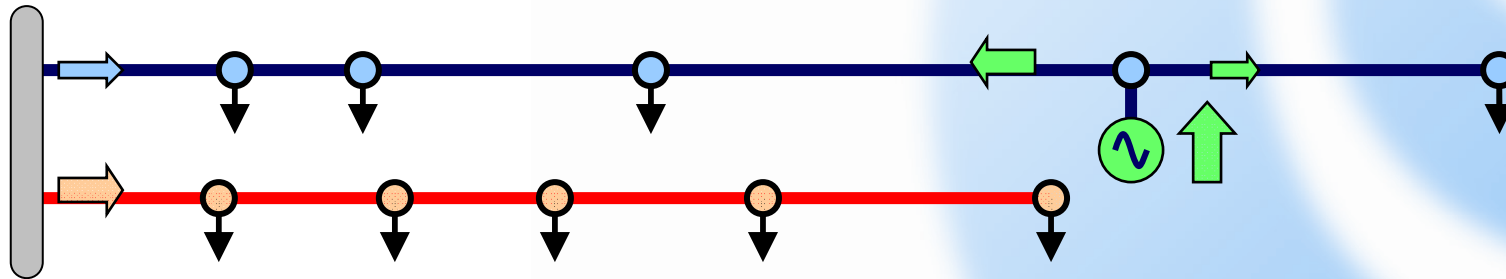


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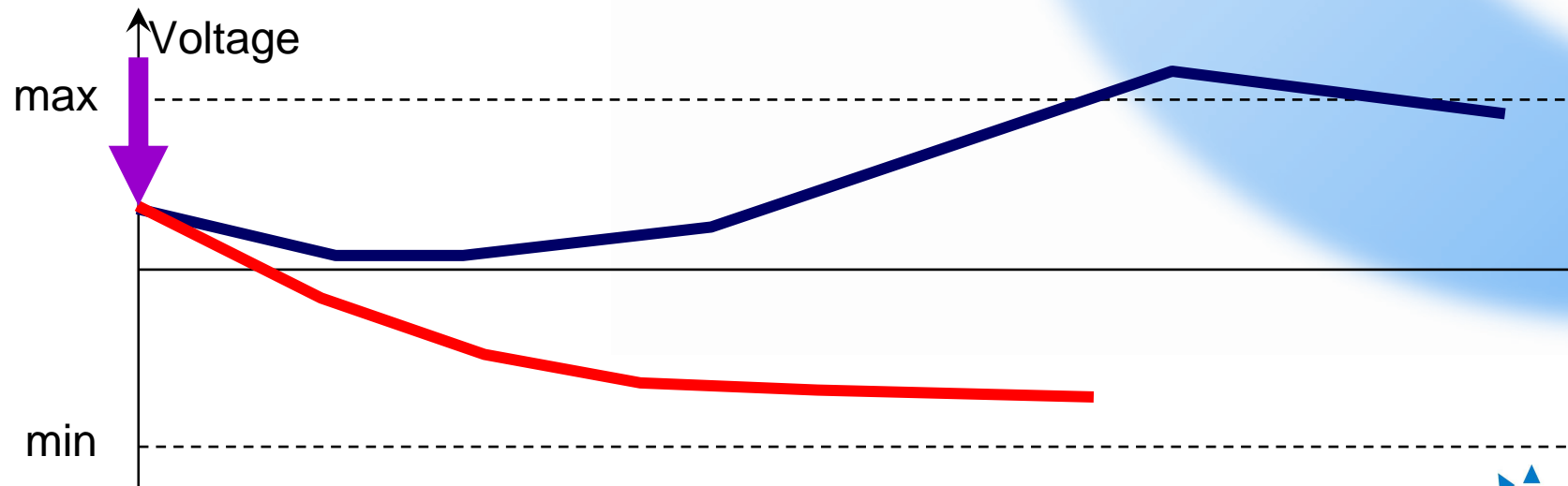
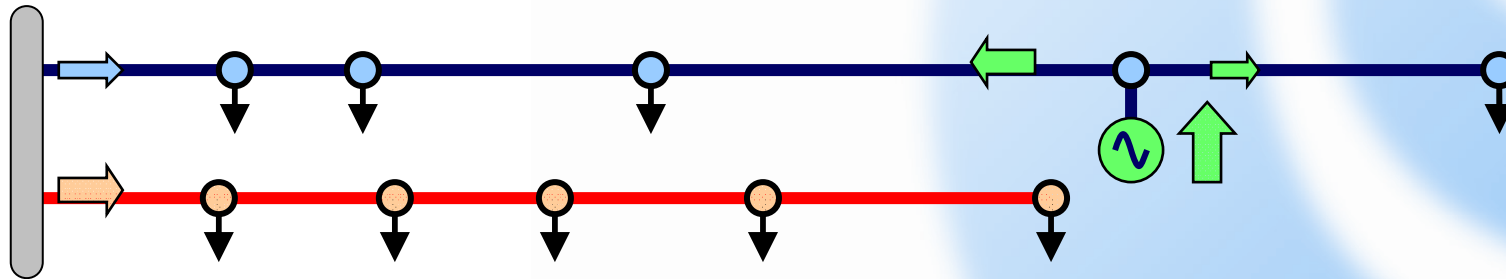
Generators' Dilemma



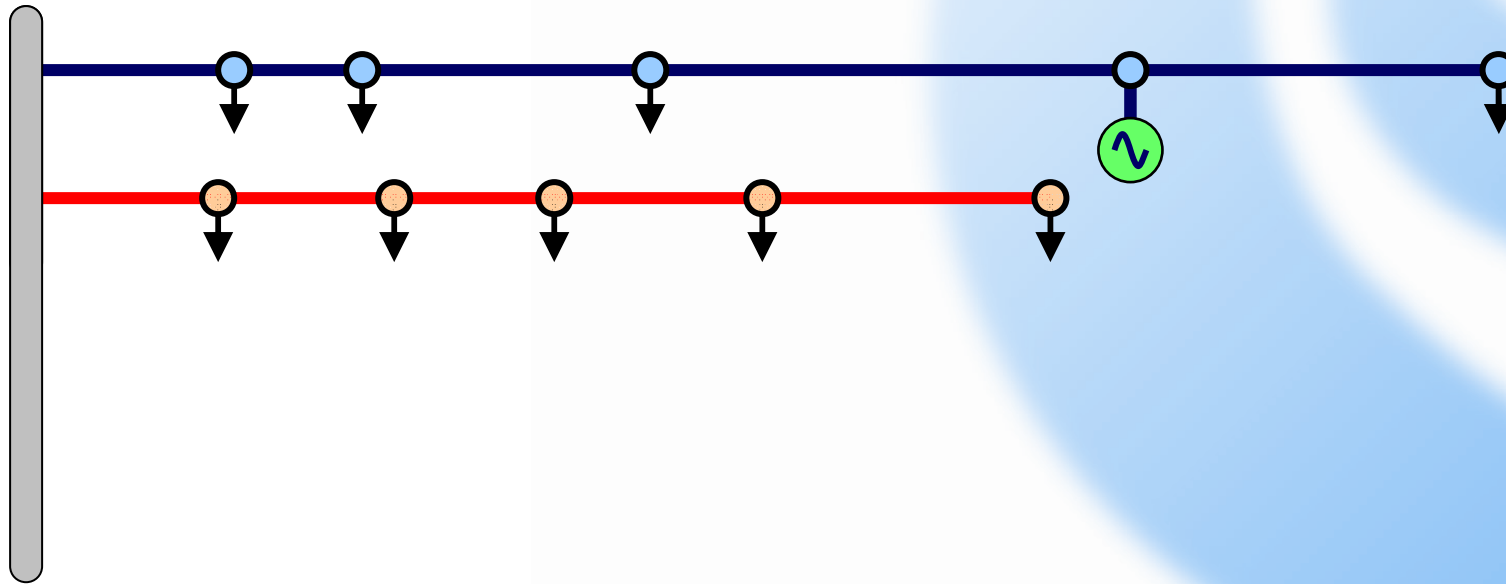
The Problem



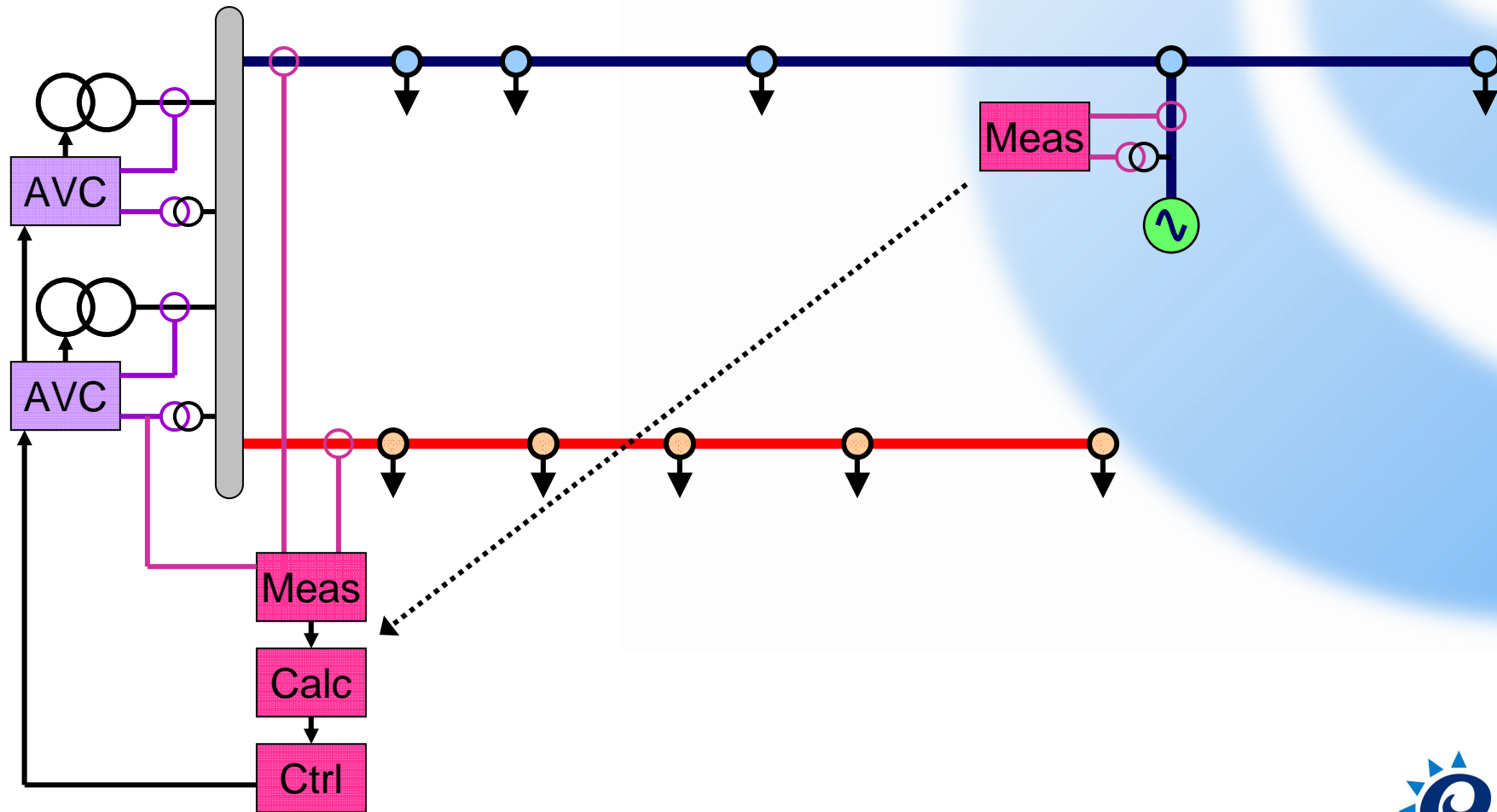
The Solution



GenAVC



GenAVC



Downsides?

1. Occasionally the combination of load and generation may lead to restrictions on export
 - Can be quantified
2. See point 1



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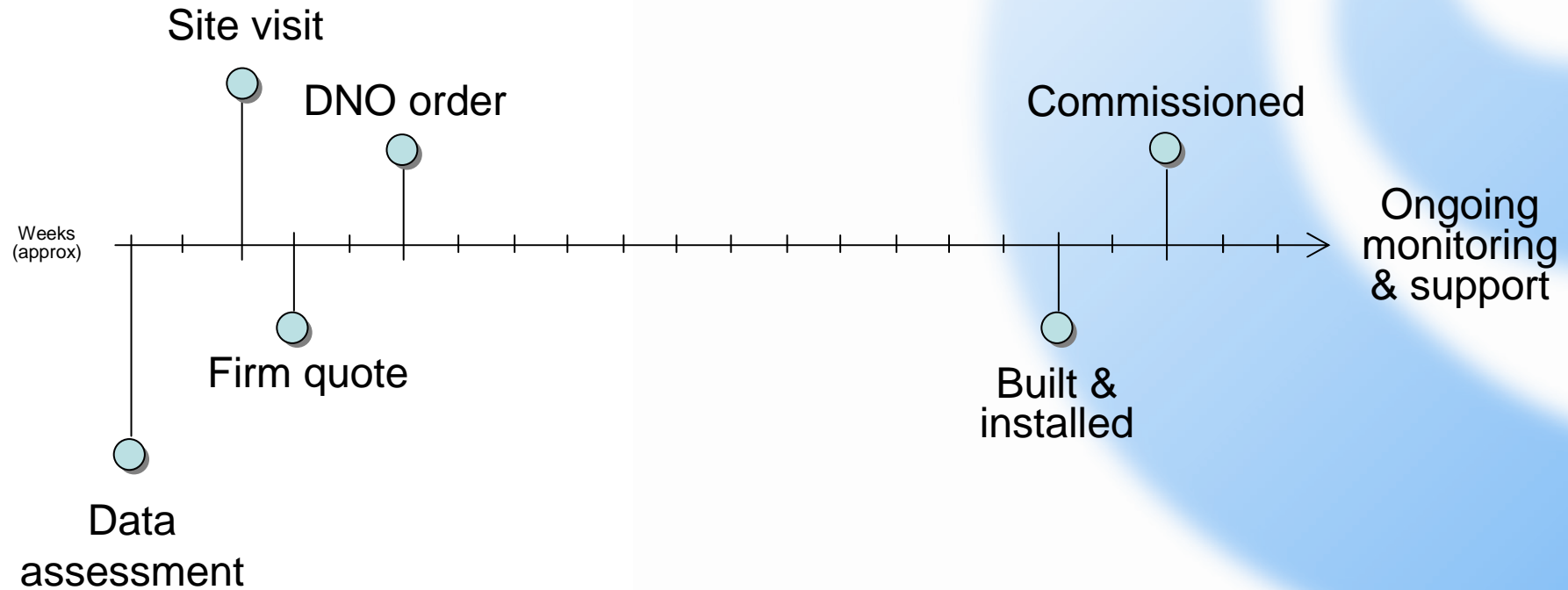
Summary

- Quick
- Clean
- Low cost
- Increased income



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Implementation Process



Constrained Generation ?

- Econnect Ventures can help you
 - Assess site and network for GenAVC
 - Liaise with network operator
- We need from you
 - List of potential sites
 - Permission to talk to network operator
 - Historical data for existing sites
- You need from us
 - Confidentiality agreement





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