

Forte Renewables

# Asset Management Services

*Let Us Guide You to  
Minimised Cost of Energy*

forte

# What is Asset Management (AM)?

“Asset Management” (AM) includes Site Management, Operations, Maintenance and Technical Management. An effective AM Strategy helps you maximize production and minimise Cost of Energy.

# Our Value Offering

We guide you through the process of preparing and implementing an Asset Management Strategy. Use our expertise to ensure that you are best prepared to maximise your earnings from your wind energy assets over the full 20-year life-cycle.

## Our Service Products

### AM Strategiser AM Coach AM Assistant



### Global HQ

Forte Renewables  
World Trade Centre, Tower H, Zuidplein 110  
1077 XV, Amsterdam The Netherlands

T +31 20 233 1364  
info@ForteRenewables.com  
www.ForteRenewables.com



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# Forte's AM Service Products

## #1 AM Strategiser



An effective Asset Management Strategy (AMS) helps you maximize production and minimise Cost of Energy. Forte's AM Strategiser provides you with the best-in-class AMS for your project.

### Process

The strategy formulation process is an iterative process involving:

- Full project documentation review
- Extensive client consultations
- Identification and ranking of AM Scenarios

Interim deliverables shall indicate points of attention, expected resources and costs as well as principle AM options.

For most effective results the Strategy should be prepared in parallel with Service Contract Negotiations and AM Cost Modelling.

### Deliverable

Detailed report with the most advantageous AM scenario to ensure minimum Cost of Energy.

## #2 AM Coach



### Process and Deliverables

Using the AM Strategy as a guiding plan Forte can assist with the following:

#### Establish AM Control Centre:

- IT infrastructure and software specification, SCADA installation supervision, Meteorological Forecasting Software set-up

#### Personnel Sourcing and Coaching:

- Assistance with Recruitment of key-personnel, Training /Coaching of Local and Remote Asset Management Team

#### Commercial operations set-up and support:

- Strategic & Tactical Business Planning, Budget preparation, Administration - Lean pro-active and effective.

#### Protocols:

- Creation of WTG, Civil and Electrical Infrastructure inspection and Maintenance Protocols, Monthly Reporting Procedures

#### Initial Management of AM Control Centre

- Shadowing day-to-day monitoring, basic resets, data analysis

## #3 AM Assistant



### Process

In the Technical Support phase our goal is to coach you to be stand-alone. You will benefit from having access to Fortes flexible and resourceful team, ready to assist on specific aspects of your projects as and when you need us.

### Deliverables

- Monitoring of SCADA Data
- Trouble-shooting consultancy: As needed to assist trained teams
- Yield Improvements
- Periodic regulatory Inspections: To satisfy Insurance company requirements
- Independent WTG Inspections: Annual and/or at end of OEM warranty to assess OEM care of WTG

## Typical Levels of Asset Management Involvement by Owner

Level	Module	Ownership
1	Ownership	<ul style="list-style-type: none"> <li>• Contract and stakeholder management</li> <li>• Energy sales</li> <li>• Financing</li> </ul>
2	Operations Management	<ul style="list-style-type: none"> <li>• Production, monitoring, Plant control</li> <li>• HSSE, life cycle documentation</li> <li>• Reporting</li> </ul>
3	Maintenance Management	<ul style="list-style-type: none"> <li>• Contractor/OEM management, Inspections</li> <li>• Maintenance scheduling,</li> <li>• Spare part management</li> </ul>
4	BoP Maintenance	<ul style="list-style-type: none"> <li>• Scheduled, unscheduled maintenance, repairs</li> <li>• Facility management of WTG equipment/ systems</li> </ul>
5	WTG Maintenance	<ul style="list-style-type: none"> <li>• Sch/unscheduled maintenance, repairs</li> <li>• Facility management of BoP equipment/systems</li> </ul>



## Forte's Asset Management Expert Team



**Fergal O'Mahony**  
 Managing Director  
 Civil Engineer  
 Development,  
 Construction and AM



**Scott Hsu**  
 Project Manager  
 Aeronautical Engineer  
 WTG Technology,  
 Contracting and AM



**Kees de Visser**  
 Sr. Electrical Engineer  
 Electrical Engineer  
 Electrical Design,  
 Contracting and AM



**Chris Hooley**  
 Project Manager  
 Mechanical Engineer  
 WTG Technology,  
 Contracting and AM



**Cerial Tiemessen**  
 Senior Technician  
 Mechanical Engineer  
 WTG Technology,  
 Inspections and AM