

DS3 Programme Update

Yvonne Coughlan

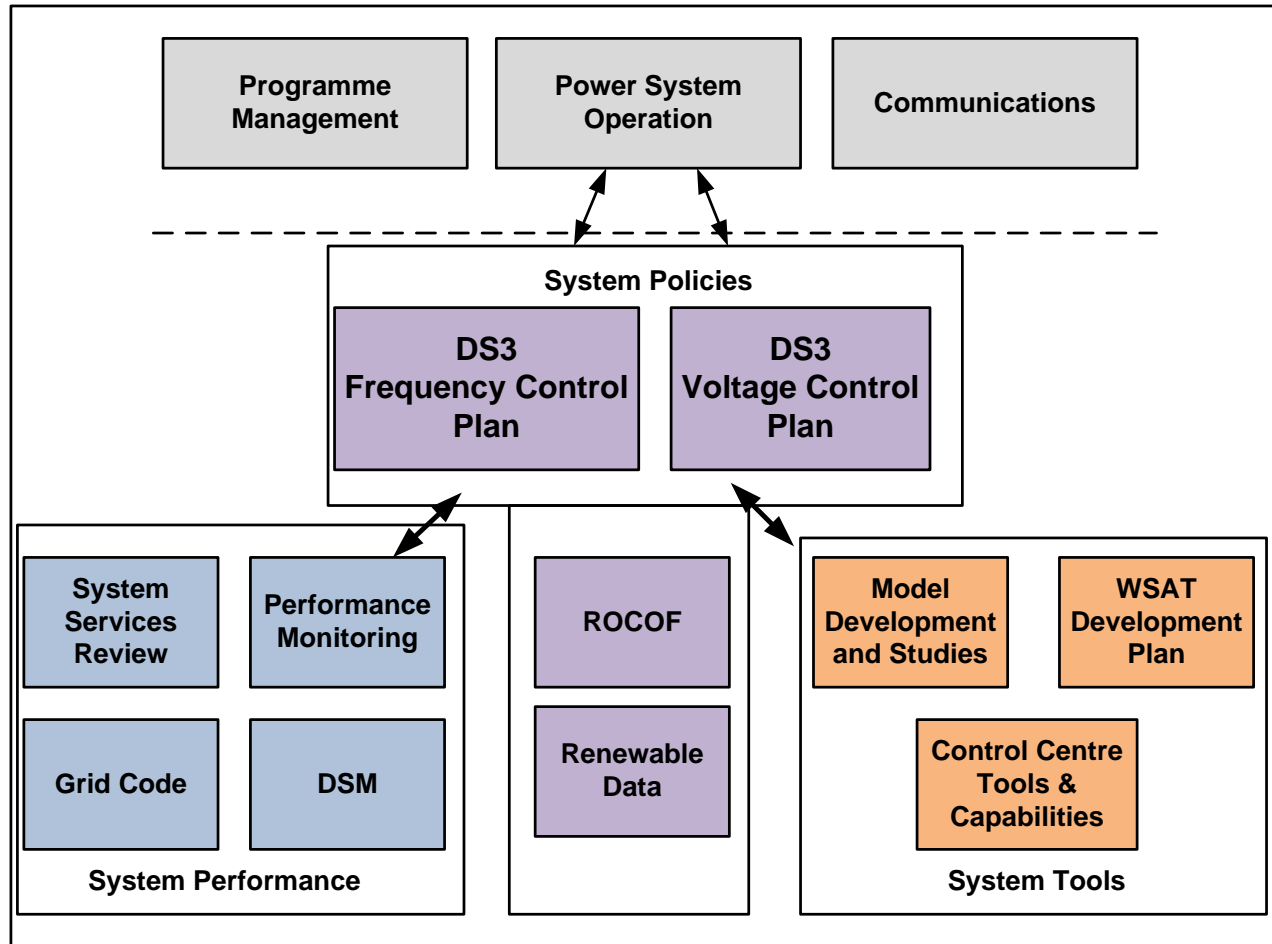


Programme Update

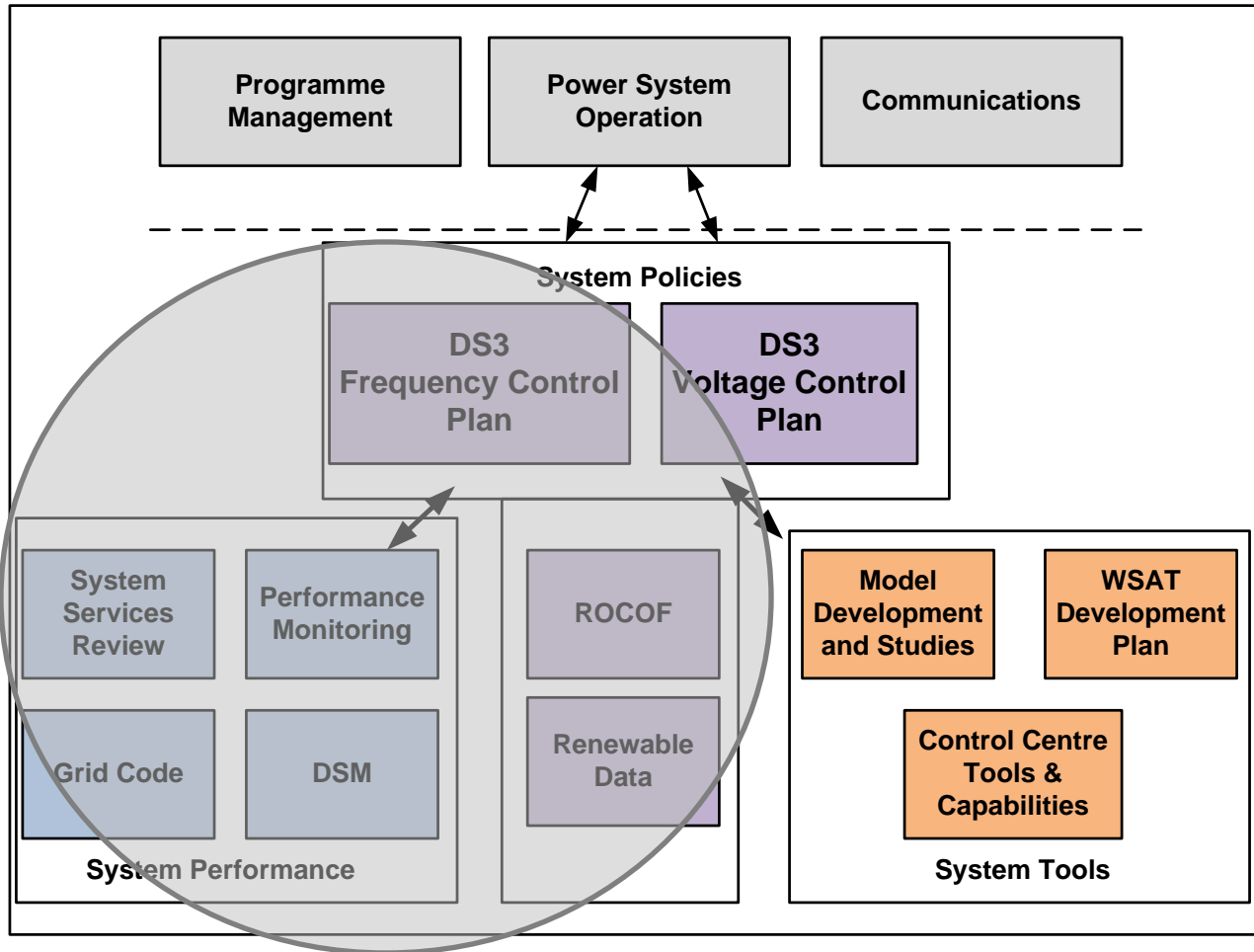
- Programme Overview
- Programme Status
- Communications/Advisory Council
- Upcoming milestones



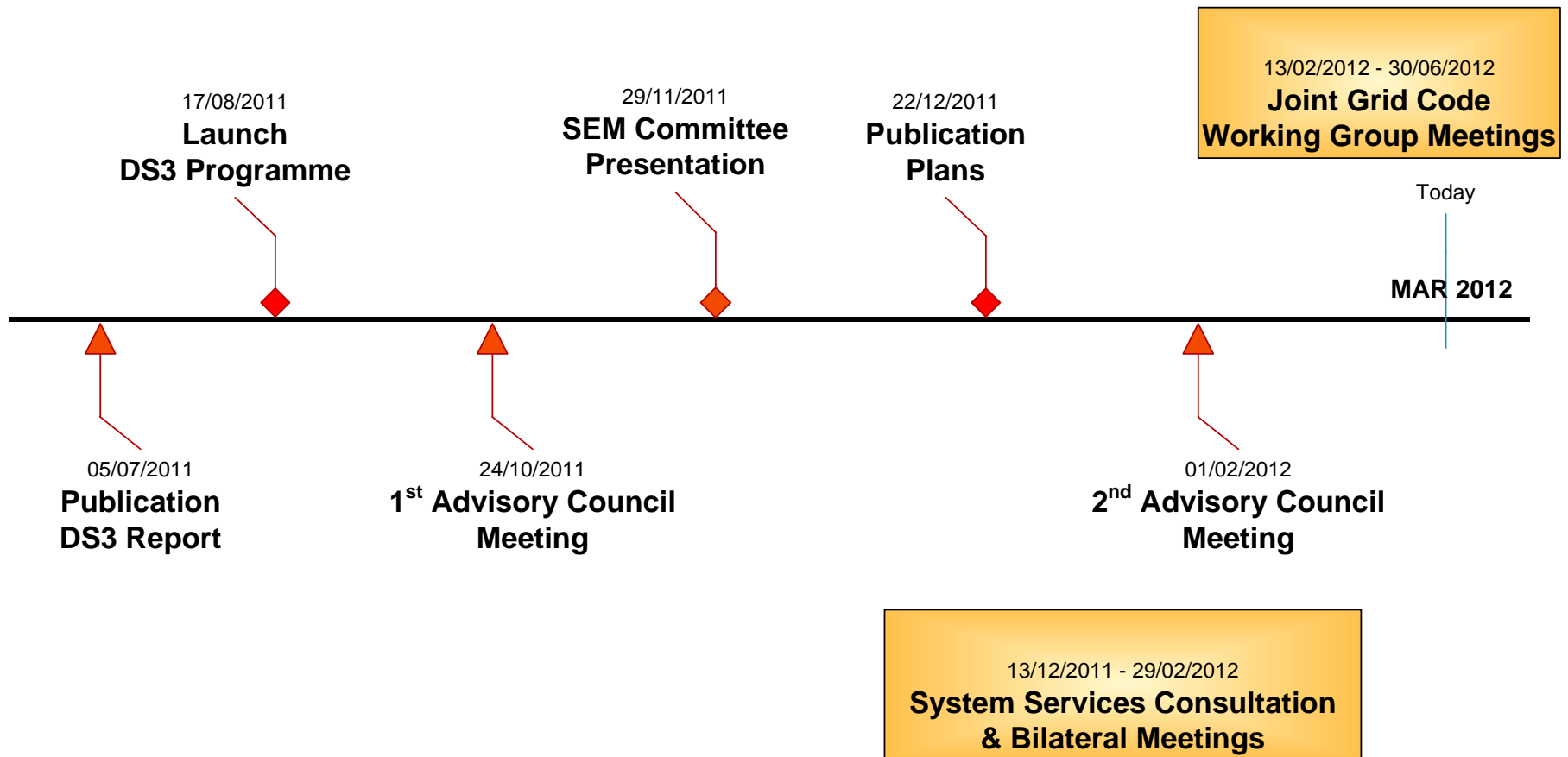
Programme Overview



Programme Overview



DS3 Programme Establishment



Programme Status

- Programme is well established
 - Strong industry engagement
- Programme details finalised
 - Working arrangements in place with RAs, DSOs
- Key milestones
 - Publication of System Services International Review
 - System Services first consultation complete and bilateral meetings held
 - Development of options for RoCoF, Voltage Control
 - Establishment of Joint Grid Code working group for DS3
 - Draft universal wind farm standards developed

Programme Status (DSM)

- Approval of Modifications to allow Demand Side Units (DSU) to export MW
- Modification to supplier license for DSU (CER/12/018)
- DSU set up in progress
 - Application pack has been developed
 - Communications with the Control Centre installed
 - Testing requirements developed
 - Expected Operational Date: Q2 2012
 - Development of process for performance validation
 - Information will be published on website
- Review of communications mechanisms planned

- Publication of Annual Renewable Report 2011
- Publication of All Island Wind and Fuel Mix Report on website.
- Contributed to NREAP (issued January 2012)



DS3 Programme Communications

- Integral part of programme
 - Industry Forums
 - Establishment of Advisory Council
 - Bilateral Engagement
 - Formal Consultations
 - Joint Grid Code working group
- Information on website:
 - Status Updates
 - Advisory Council information
 - Publications – programme plans, reports, consultations etc.

<http://www.eirgrid.com/operations/ds3/>



Advisory Council Meetings

24th Oct 2011 & 1st Feb 2012

System Services

- *Remuneration mechanisms for system services need to be reviewed*
- *A 6 week consultation period is needed for each consultation*
- *Should consider ability of emerging technologies to provide unique services*

RoCoF

- *Options for resolving RoCoF issues need to be developed further in a discussion paper*
- *Set up a working group under the Joint Grid Code Review Panel to investigate RoCoF*
- *Impact of European Network Code*
- *Investigate international RoCoF experience*

Voltage Control

- *Discussion paper needed to develop this topic further –position presented is very “conceptual”*
- *Include examples of current system voltage control issues in paper*

Demonstration Projects

- *Suggestion of a project to demonstrate emulated inertia*
- *Open invitation by EirGrid Group to partner with industry to demonstrate new concepts/technologies*

Demonstration Projects

- Opportunity to work with the system operators to demonstrate new concepts

Areas of Interest

- Demand side management concepts
- System Operation including advanced voltage control both at transmission and distribution level, dynamic line rating
- System Services e.g. reserve provision
- Transmission Technology types

Upcoming Milestones

	2012			
	Q1	Q2	Q3	Q4
Present draft proposal for WFPS Standards at JGCRP*		▲		
Present outline RoCoF proposal at JGCRP		▲		
Present final proposal for WFPS Standards at JGCRP			▲	
Present final RoCoF proposal at JGCRP			▲	
Decision on RoCoF & WFPS Standards				▲
All Island WSAT Operational				▲
System Services consultation		■		
System Services Industry Forum		▲		
DS3 Industry Forum				▲
RA/TSO Meetings	-----			

Programme Challenges

- Scale of Project
 - 11 work-streams with significant interdependencies
 - Deriving innovative solutions to new challenges
 - Outcomes have far-reaching consequences
 - Active engagement from industry is critical
- Managing Resources
 - Industry and System Operators
- Impact of European developments
 - Network Codes
 - European Directives etc.