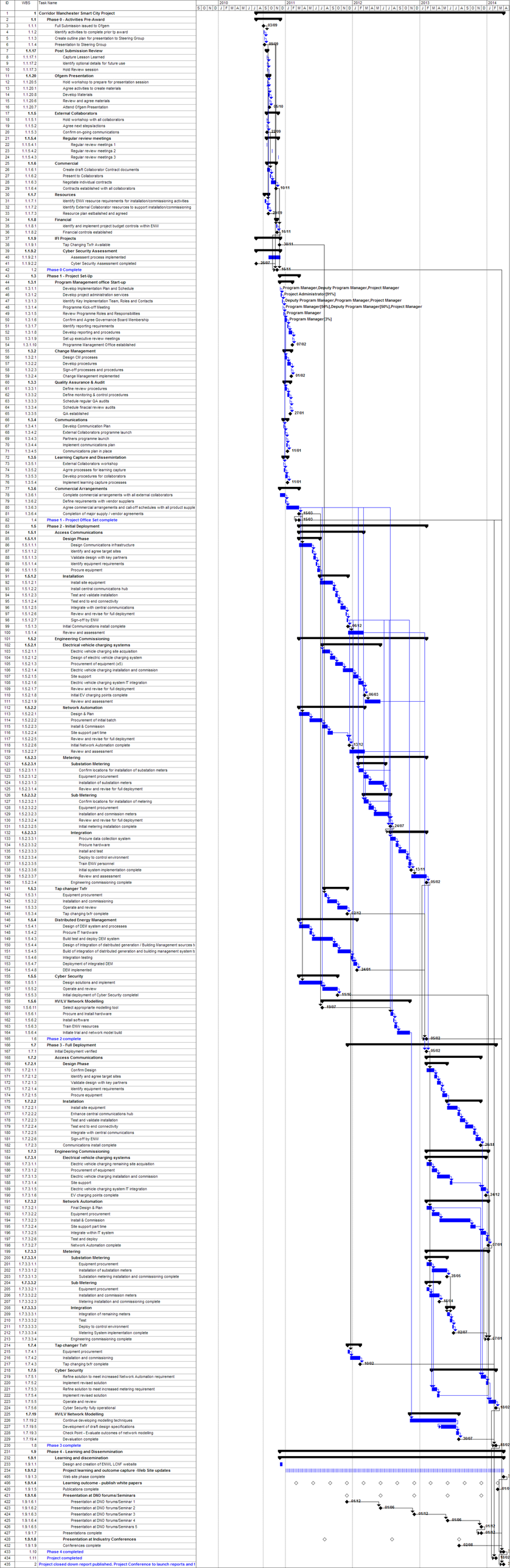
ID
WBS
Task Name
2010
2011
2012
2013
2014
1 Corridor Manchester Smart City Project
1.1 Phase 0 - Activities Pre-Award
1.1.1 Full Submission issued to Ofgem
1.1.2 Identify activities to complete prior to award
1.1.3 Create outline plan for presentation to Steering Group
1.1.4 Presentation to Steering Group
1.1.17 Post Submission Review
1.1.17.1 Capture Lesson Learned
1.1.17.2 Identify optional details for future use
1.1.17.3 Hold Review session
1.1.20 Ofgem Presentation
1.1.20.5 Hold workshop to prepare for presentation session
1.1.20.1 Agree activities to create materials
1.1.20.8 Develop Materials
1.1.20.6 Review and agree materials
1.1.20.7 Attend Ofgem Presentation
1.1.5 External Collaborators
1.1.5.1 Hold workshop with all collaborators
1.1.5.2 Agree next steps/actions
1.1.5.3 Confirm on-going communications
1.1.5.4 Regular review meetings
1.1.5.4.1 Regular review meetings 1
1.1.5.4.2 Regular review meetings 2
1.1.5.4.3 Regular review meetings 3
1.1.6 Commercial
1.1.6.1 Create draft Collaborator Contract documents
1.1.6.2 Present to Collaborators
1.1.6.3 Negotiate individual contracts
1.1.6.4 Contracts established with all collaborators
1.1.7 Resources
1.1.7.1 Identify ENW resource requirements for installation/commissioning activities
1.1.7.2 Identify External Collaborator resources to support installation/commissioning
1.1.7.3 Resource plan estbalished and agreed
1.1.8 Financial
1.1.8.1 Identify and implement project budget controls within ENW
1.1.8.2 Financial controls established
1.1.9 IFI Projects
1.1.9.1 Tag Changing Txfr Available
1.1.9.2 Cyber Security Assessment
1.1.9.2.1 Assessment process implemented
1.1.9.2.2 Cyber Security Assessment completed
1.2 Phase 0 Complete
1.3 Phase 1 - Project Set-Up
1.3.1 Program Management office Start-up
1.3.1.1 Develop Implementation Plan and Schedule
1.3.1.2 Develop project administration services
1.3.1.3 Identify Key Implementation Team, Roles and Contacts
1.3.1.4 Programme Kick-off Meeting
1.3.1.5 Review Programme Roles and Responsibilities
1.3.1.6 Confirm and Agree Governance Board Membership
1.3.1.7 Identify reporting requirements
1.3.1.8 Develop reporting and procedures
1.3.1.9 Set up executive review meetings
1.3.1.10 Programme Management Office established
1.3.2 Change Management
1.3.2.1 Design CM processes
1.3.2.2 Develop procedures
1.3.2.3 Sign-off processes and procedures
1.3.2.4 Change Management implemented
1.3.3 Quality Assurance & Audit
1.3.3.1 Define review procedures
1.3.3.2 Define monitoring & control procedures
1.3.3.3 Schedule regular QA audits
1.3.3.4 Schedule finacial review audits
1.3.3.5 QA established
1.3.4 Communications
1.3.4.1 Develop Communication Plan
1.3.4.2 External Collaborators programme launch
1.3.4.3 Partners programme launch
1.3.4.4 Implement communications plan
1.3.4.5 Communications plan in place
1.3.5 Learning Capture and Dissemintation
1.3.5.1 External Collaborators workshop
1.3.5.2 Agree processes for learning capture
1.3.5.3 Develop procedures for collaborators
1.3.5.4 Implement learning capture processes
1.3.6 Commercial Arrangements
1.3.6.1 Complete commercial arrangements with all external collaborators
1.3.6.2 Define requirements with vendor suppliers
1.3.6.3 Agree commercial arrangements and call-off schedules with all product supplie
1.3.6.4 Completion of major supply / vendor agreements
1.4 Phase 1 - Project Office Set complete
1.5 Phase 2 - Initial Deployment
1.5.1 Access Communications
1.5.1.1 Design Phase
1.5.1.1.1 Design Communications infrastructure
1.5.1.1.2 Identify and agree target sites
1.5.1.1.3 Validate design with key partners
1.5.1.1.4 Identify equipment requirements
1.5.1.1.5 Procure equipment
1.5.1.2 Installation
1.5.1.2.1 Install site equipment
1.5.1.2.2 Install central communications hub
1.5.1.2.3 Test and validate installation
1.5.1.2.4 Test end to end connectivity
1.5.1.2.5 Integrate with central communications
1.5.1.2.6 Review and revise for full deployment
1.5.1.2.7 Sign-off by ENW
1.5.1.3 Initial Communications install complete
1.5.1.4 Review and assessment
1.5.2 Engineering Commissioning
1.5.2.1 Electrical vehicle charging systems
1.5.2.1.1 Electric vehicle charging site acquisition
1.5.2.1.2 Design of electric vehicle charging system
1.5.2.1.3 Procurement of equipment (x5)
1.5.2.1.4 Electric vehicle charging installation and commission
1.5.2.1.5 Site support
1.5.2.1.6 Electric vehicle charging system IT integration
1.5.2.1.7 Review and revise for full deployment
1.5.2.1.8 Initial EV charging points complete
1.5.2.1.9 Review and assessment
1.5.2.2 Network Automation
1.5.2.2.1 Design & Plan
1.5.2.2.2 Procurement of initial batch
1.5.2.2.3 Install & Commission
1.5.2.2.4 Site support part time
1.5.2.2.5 Review and revise for full deployment
1.5.2.2.6 Initial Network Automation complete
1.5.2.2.7 Review and assessment
1.5.2.3 Metering
1.5.2.3.1 Substation Metering
1.5.2.3.1.1 Confirm locations for installation of substation meters
1.5.2.3.1.2 Equipment procurement
1.5.2.3.1.3 Installation of substation meters
1.5.2.3.1.4 Review and revise for full deployment
1.5.2.3.2 Sub Metering
1.5.2.3.2.1 Confirm locations for installation of metering
1.5.2.3.2.2 Equipment procurement
1.5.2.3.2.3 Installation and commission meters
1.5.2.3.2.4 Review and revise for full deployment
1.5.2.3.2.5 Initial metering installation complete
1.5.2.3.3 Integration
1.5.2.3.3.1 Procure data collection system
1.5.2.3.3.2 Procure hardware
1.5.2.3.3.3 Install and test
1.5.2.3.3.4 Deploy to control environment
1.5.2.3.3.5 Train ENW personnel
1.5.2.3.3.6 Initial system implementation complete
1.5.2.3.3.7 Review and assessment
1.5.2.3.4 Engineering commissioning complete
1.5.3 Tap changer Txfr
1.5.3.1 Equipment procurement
1.5.3.2 Installation and commissioning
1.5.3.3 Operate and review
1.5.3.4 Tap changing txfr complete
1.5.4 Distributed Energy Management
1.5.4.1 Design of DEM system and processes
1.5.4.2 Procure IT hardware
1.5.4.3 Build test and deploy DEM system
1.5.4.4 Design of integration of distributed generation / Building Management sources t
1.5.4.5 Build of integration of distributed generation and building management system t
1.5.4.6 Integration testing
1.5.4.7 Deployment of integrated DEM
1.5.4.8 DEM implemented
1.5.5 Cyber Security
1.5.5.1 Design solutions and implement
1.5.5.2 Operate and review
1.5.5.3 Initial deployment of Cyber Security completel
1.5.6 HV/LV Network Modelling
1.5.6.11 Select appropriarte modelling tool
1.5.6.1 Procure and install hardware
1.5.6.2 Install software
1.5.6.3 Train ENW resources
1.5.6.4 Initiate trial and network model build
1.6 Phase 2 complete
1.7 Phase 3 - Full Deployment
1.7.1 Initial Deployment verified
1.7.2 Access Communications
1.7.2.1 Design Phase
1.7.2.1.1 Confirm Design
1.7.2.1.2 Identify and agree target sites
1.7.2.1.3 Validate design with key partners
1.7.2.1.4 Identify equipment requirements
1.7.2.1.5 Procure equipment
1.7.2.2 Installation
1.7.2.2.1 Install site equipment
1.7.2.2.2 Enhance central communications hub
1.7.2.2.3 Test and validate installation
1.7.2.2.4 Test end to end connectivity
1.7.2.2.5 Integrate with central communications
1.7.2.2.6 Sign-off by ENW
1.7.2.3 Communications install complete
1.7.3 Engineering Commissioning
1.7.3.1 Electrical vehicle charging systems
1.7.3.1.1 Electric vehicle charging remaining site acquisition
1.7.3.1.2 Procurement of equipment
1.7.3.1.3 Electric vehicle charging installation and commissio
1.7.3.1.4 Site support
1.7.3.1.5 Electric vehicle charging system IT integration
1.7.3.1.6 EV charging points complete
1.7.3.2 Network Automation
1.7.3.2.1 Final Design & Plan
1.7.3.2.2 Equipment procurement
1.7.3.2.3 Install & Commission
1.7.3.2.4 Site support part time
1.7.3.2.5 Integrate within IT system
1.7.3.2.6 Test and deploy
1.7.3.2.7 Network Automation complete
1.7.3.3 Metering
1.7.3.3.1 Substation Metering
1.7.3.3.1.1 Equipment procurement
1.7.3.3.1.2 Installation of substation meters
1.7.3.3.1.3 Substation metering installation and commissioning complete
1.7.3.3.2 Sub Metering
1.7.3.3.2.1 Equipment procurement
1.7.3.3.2.2 Installation and commission meters
1.7.3.3.2.3 Metering installation and commissioning complete
1.7.3.3.3 Integration
1.7.3.3.3.1 Integration of remaining meters
1.7.3.3.3.2 Test
1.7.3.3.3.3 Deploy to control environment
1.7.3.3.3.4 Metering System implementation complete
1.7.3.3.4 Engineering commissioning complete
1.7.4 Tap changer Txfr
1.7.4.1 Equipment procurement
1.7.4.2 Installation and commissioning
1.7.4.3 Tap changing txfr complete
1.7.5 Cyber Security
1.7.5.1 Refine solution to meet increased Network Automation requirement
1.7.5.2 Implement revised solution
1.7.5.3 Refine solution to meet increased metering requirement
1.7.5.4 Implement revised solution
1.7.5.5 Operate and review
1.7.5.6 Cyber Security fully operational
1.7.19 HV/LV Network Modelling
1.7.19.2 Continue developing modelling techniques
1.7.19.5 Development of draft design specifications
1.7.19.3 Check Point - Evaluate outcomes of network modelling
1.7.19.4 Devaluation complete
1.8 Phase 3 complete
1.9 Phase 4 - Learning and Dissemmination
1.9.1 Learning and disceminations
1.9.1.1 Design and creation of ENWL LCNF website
1.9.1.2 Project learning and outcome capture -Web Site updates
1.9.1.3 Web site phase complete
1.9.1.4 Learning outcome - publish white papers
1.9.1.5 Publications complete
1.9.1.6 Presentation at DNO forums/Seminars
1.9.1.6.1 Presentation at DNO forums/Seminar 1
1.9.1.6.2 Presentation at DNO forums/Seminar 2
1.9.1.6.3 Presentation at DNO forums/Seminar 3
1.9.1.6.4 Presentation at DNO forums/Seminar 4
1.9.1.6.5 Presentation at DNO forums/Seminars 5
1.9.1.7 Presentations complete
1.9.1.8 Presentation at Industry Conferences
1.9.1.9 Conferences complete
1.10 Phase 4 completed
1.11 Project completed
2 Project closed down report published. Project Conference to launch reports and t
03/09
05/09
05/10
12/09
10/11
29/09
16/11
30/11
26/07
16/11
Program Manager,Deputy Program Manager,Project Manager
Project Administrator[91%]
Deputy Program Manager,Program Manager,Project Manager
Program Manager[58%],Deputy Program Manager[58%],Project Manager
Program Manager
Program Manager[3%]
07/02
01/02
27/01
11/01
11/01
15/03
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06/12
06/03
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24/07
13/11
05/02
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