Smart grid roadmap

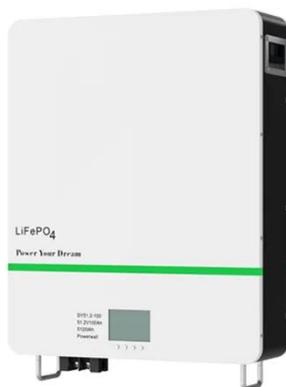# Smart grid roadmap

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Smart Grids Roadmap

United StatesIntroductionElectricity System Needs for Today and the FutureSmart Grid DeploymentPolicy and Regulatory Framework: Actions and

MilestonesInternational CollaborationAcknowledgementsKey findingsIntroductionWhat are smart grids?Rationale for smart grid technologyCommunicationsEnables informed participation by customersAccommodates all generation and storage optionsEnables new products, services and marketsProvides the power quality for the range of needsOptimises asset utilisation and operating eficiencyTechnologyAgeing infrastructurePeak demandElectricity reliabilitySystem adequacyBox 2. Electricity system flexibilitySystem securityCyber securitySmart grid technologiesWide-area monitoring and controlInformation and communications technology integrationDistributionResidentialRenewable and distributed generation integrationTransmission enhancement applicationsDistribution grid managementAdvanced metering infrastructureElectric vehicle charging infrastructureBox 3. Smart communitiesTailoring smart grids to developing countries and emerging economiesStatus of electricity system markets and regulationVision for smart grid deployment to 2050Regional analysis and impacts for deploymentInterpreting results and further analysisEstimating smart grid investment costs and operating savingsThe need for commercial-scale demonstrationDevelopment of consumer-based enabling technologiesMilestonesElectrical equipment manufacturers(Electronics, appliances, automotive) systems)Benefits of interoperabilityPolicy and regulatory framework: actions and

milestonesGeneration, transmission and distributionCross-sector considerationsElectricity generation sectorTransmission networksDistribution networksSmart grid, smart consumer policiesCollect best practice on consumer feedback and use it to improve pilot projectsAutomated demand responseDevelop and implement consumer protection policiesCustomer acceptance and social safety net issuesBuilding consensus on smart grid deploymentExpand existing international collaboration effortsSmart grid collaboration and developing countriesConclusion: near-term roadmap actions for stakeholdersGlossaryAfricaCentral and South America (CSA)ChinaMiddle East (MEA)Other developing AsiaEconomies in transitionOECD Europeis subject to specific restrictions that limit its use and distribution. The European Commission The terms and conditions are available also participates in online at the work of the IEA.See more on iea.blob re.windows Images of Smart Grid RoadmapElectric Vehicle Charging InfrastructureRenewable Energy IntegrationSmart Grid DiagramSmart Grid NetworkSmart Electric GridSmart Grid StandardNIST Road MapSmart Grid AiSmart Grid DevelopmentThe four stages to a truly smart grid , Energy Networks AustraliaSmart Grid Energy Storage and Charging Roadmap , EdrawMax TemplatesFigure 3 from HYDRO-QUÉBEC ' S SMART GRID ROADMAP UPDATE AND SMART GRID Smart Grid Implementation Evolutionary Roadmap Of Smart Grid Technology Smart Grid Explained at Scott Mcrae blogPPT - GLOBAL SMART GRID

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