




<p style="writing-mode: vertical-rl; transform: rotate(180deg);">ENTITY</p>	<h2 style="text-align: center;">Abu Dhabi Water & Electricity Authority</h2> <p>P.O. Box 6120, Abu Dhabi, UAE Phone: +971 (0) 2 694 3333 Fax: +971 (0) 2 694 3499 E-Mail: mhjaberi@adwea.gov.ae www.adwea.com</p> <div style="text-align: right;">  هيئة مياه وكهرباء أبوظبي Abu Dhabi Water & Electricity Authority </div>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Abstract</p>	<p>ADWEA is a national organization wholly owned by the Abu Dhabi Government, maintaining a separate legal entity, as well as complete financial and administrative independence. ADWEA has been incorporated by virtue of law No. 2 issued in March 1998 to replace the former Water & Electricity Department. ADWEA is responsible for implementing government policy regarding water and electricity sector in the Emirate, including privatization of the water and electricity sector. Abu Dhabi Water and Electricity Authority supplies electricity and potable water to a population of more than 1.5 million in the emirate of Abu Dhabi, over an area of 67340 sq. km. ADWEA is managed by a Board of Management Chaired by H.H. Shaikh Diab Bin Zayed Al Nahyan. ADWEA manages the affairs of following wholly-owned subsidiaries responsible for different activities in the water and electricity sector:</p> <ol style="list-style-type: none"> 1. Abu Dhabi Water and Electricity Company - ADWEC 2. Abu Dhabi Transmission and Dispatch Company (TRANSCO) 3. Abu Dhabi Distribution Company - ADDC 4. Al Ain Distribution Company – AADC 5. Al Mirfa Power Company - AMPC <p>Vision: In view of operations and achievements, ADWEA and its subsidiaries anticipate possessing a leading position in the Gulf competing with pioneers involved in the water, electricity and sewerage sector worldwide.</p> <p>Mission: ADWEA produces, transmits and distributes potable water, electricity and sewerage services reliably, securely, safely and cost-effectively throughout the Emirate of Abu Dhabi.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">GIS Profile</p>	<p>Abu Dhabi Water & Electricity Authority (ADWEA) in February 2001 implemented a fast-track enterprise GIS project to transform and integrate the main stream of the Water and Electricity business activities into digitally seamless, qualitative, modern utility environment. ADWEA GIS objectives were therefore set to integrate Transmission and Distribution operation, planning, management, revenue & sales (billing), and customer service to produce an electronic seamless water and electricity utility system environment, that provides the Customer with a Higher Quality of Services.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">SDI Involvement</p>	<p>ADWEA has been one of the members of the AD-SDI since 2007. ADWEA has cooperated closely with AD-SDI Data clearing house, providing on quarterly basis a complete set of ADWEA Utility Asset Data comprising of Electrical, Water Distribution and Transmission in addition to Sewerage collection network covering seamlessly the whole Emirate of Abu Dhabi.</p> <p>During the last two years ADWEA has worked with AD-SDIC on:</p> <p>Defining a Simplified Utility Data Model: incorporates the necessary data structure and components of water, sewer and electrical data sets and features which are available through the AD-SDI portal to the AD-SDI community for viewing. This unique initiative resulted in an in-depth review of the user community business requirements related to ADWEA utility network. A set of seven data models are extracted through ADWEA utility data to represent the data of Abu Dhabi and Al Ain water and electrical distribution, Transmission Water and Power Network and sewerage collection system in AD-SDI GIS portal. The simplified Utility Data Model is considered as the baseline for benchmarking the growth of this model in the future based on the expansion of the SDI GIS portal usability by the AD-SDI community's utility interest groups.</p> <p>Developing The Metadata Standards: Which comprise of a set of metadata describing the utility data with relation to the information related to the data such as the Modification or Update date of the data components, the sources of the data and other specific mandatory information maintained by ADWEA to further enhance the usability of its utility data by the AD-SDI community.</p> <p>Documenting Utility Data Standards: which were developed based on the existing ADWEA utility data standards which were initially developed along a set of recognized standards utilized within the utility GIS internationally. The ADWEA utility Data standards present a valuable data dictionary which provides the definition of each feature within the corresponding utility data set, correlating the physical properties of the features as part of an active component in utility network serving the ADWEA customers in Abu Dhabi.</p>
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