**Life of a Meter**

**Presented to**

**Bangor Hydro Electric Company**

Proposed by

**ASAP Media Services**

University of Maine

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**Introduction**

Bangor Hydro has requested development of a model for their employees that presents the connections between departments throughout the process of designing, installing, and maintaining a Smart Meter. To that end, ASAP has proposed the construction of a web-based, visual-driven system that will depict the “life of a meter”. A graphical overview of the process that highlights the phases of purchasing, installing, maintaining, and the retirement of a Smart Meter will be created. Each of these phases can be explored, presenting users with job titles, employee names, and their descriptions. This system will allow Bangor Hydro employees to see the impact they have on the Smart Meter lifecycle, giving them a better sense of ownership of every Smart Meter and camaraderie among their fellow employees.

**Solution**

The proposed solution will be developed as a web app with department and employee-specific information stored in an external database. The system will be developed so as to run in IE8, the dominant web browser in use at Bangor Hydro.

The web app will be a single page, graphical illustration of the various phases of a meter’s lifecycle. Each major phase will be represented by a graphic and, together, these graphics will outline the process of designing, purchasing, installing, maintaining, and retiring a Smart Meter. Each phase will be interactive and, when clicked, will expand into additional sections that represent the departments associated with each phase. These departments can be clicked again, further expanding into the jobs and employees linked to the department. When the user selects a phase, department, job, or employee, ts relevant description will appear in a designated area on the page. Additionally, the selected section will expand into connected sections (ex. Clicking “Purchase Approval” expands into “T&D Planning” and “Executive Approval”). As users dive further into the sections, they will begin to see how each phase is connected to another and how their role in the life cycle of a Meter impacts the process as a whole.

The database will store all relevant information about the lifecycle of a meter, departments, and employees including department names and descriptions and employee names, titles, and job position descriptions. All of the aforementioned data will be provided by Bangor Hydro and stored separately for simple management by Bangor Hydro post-completion of the project, should any changes to the information be necessary.

**Cost Analysis**

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| **Section** | **Hours x Rate** | **Total** |
| External Database | 5 hours x $35/hour | $175.00 |
| Company Overview Map | 100 hours x $35/hour | $3,500 |
| Dynamic Node-based Visualization | 65 hours x $35/hour | $2,275.00 |
| **Total Cost** | **170 hours x $35/hour** | **$5,950.00** |

In the proposed strategy, ASAP will develop a database to store relevant information about departments and employees at Bangor Hydro. ASAP will then design and develop graphics representing each phase of the life cycle of a meter to illustrate how each department at Bangor Hydro contributes to the life cycle of a meter. A dynamic visualization tool using a network-based metaphor will also be developed to relate information about specific departments and individuals to the phases of a meter’s lifecycle. During development, bi-weekly meetings will be held with Bangor Hydro to review and discuss progress.

**Agreement**

Original graphical elements created by ASAP specifically for the application becomes property of Bangor Hydro once payment has been delivered. ASAP shall retain ownership rights of interactivity designs and reserves the right to reference and reuse source components (void of Bangor Hydro’s styling, data, or information otherwise) in future projects.

We hereby agree to these terms, conditions and scope of work between ASAP and Bangor Hydro concerning development of the Life a Meter web application.

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Date Mike Scott Date

Bangor Hydro ASAP Media Services