**Life of a Meter**

**Presented to**

**Bangor Hydro Electric Company**

Proposed by

**ASAP Media Services**

University of Maine

June 20th, 2012

**Introduction**

Bangor Hydro Electric Company wants to develop a model that illustrates the connection between departments and employees throughout the process of designing, installing, and retiring a Smart Meter. Using a combination of visual representations and textual descriptions, Bangor Hydro plans to demonstrate the impact that these departments and employees have on the process as a whole. This system will allow Bangor Hydro employees to see the impact they have on the Smart Meter life cycle, instilling a better sense of collaboration within the company and among their fellow employees. Bangor Hydro has approached ASAP Media Services (ASAP) as a potential creative collaborator who brings fresh ideas to its proposed project. In response, ASAP offers the following overview to detail the scope and nature of an effective collaboration.

**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 application will be a single page that illustrates the various phases of a meter’s life cycle. 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 (ex. Clicking “Purchase Approval” expands into “T&D Planning” and “Executive Approval”). These departments can also be clicked, further expanding into the jobs and employees linked to the department. When the user selects a phase, department, job, or employee, its relevant description will appear in a designated area on the page. 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 Smart Meter impacts the process as a whole.

The database will store all relevant information about the life cycle of a meter, including department names and descriptions as well as employee names, titles, and job descriptions. All of the aforementioned data will be provided by Bangor Hydro and stored in an easily managed database. Post-completion of the project, Bangor Hydro will be able to change department and employee information as 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 | $3,500.00 |
| 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 solution, ASAP will create a database to store relevant information about departments and employees at Bangor Hydro. A dynamic visualization tool using a network-based metaphor will be developed to relate information about specific departments and individuals to the phases of a meter’s life cycle. 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 is interrelated. 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