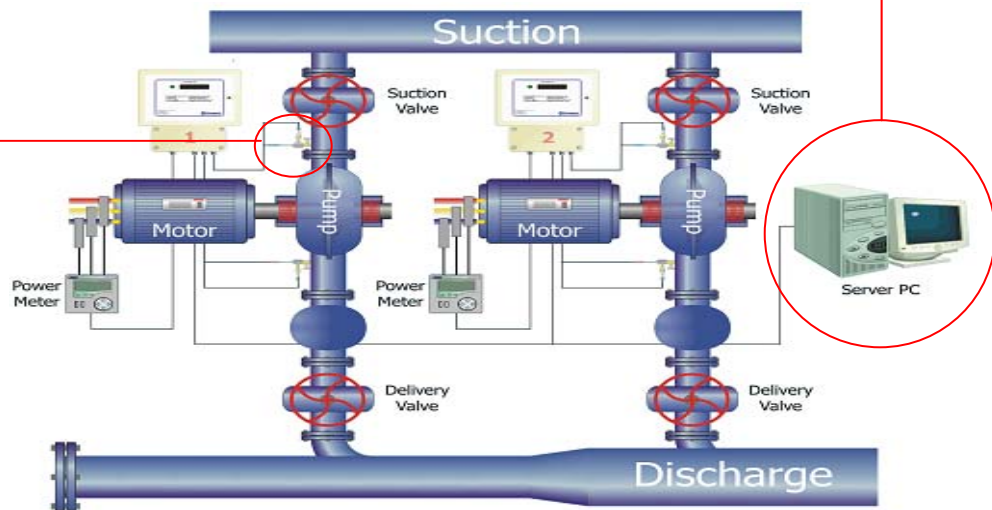
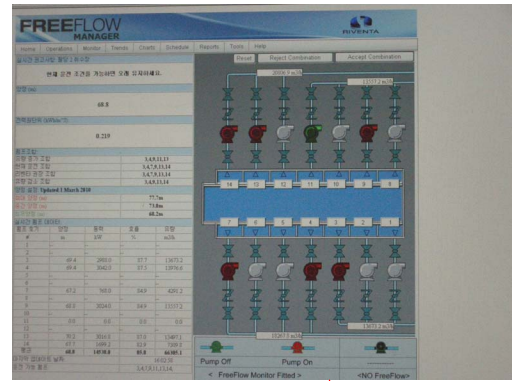
 <p align="center">CDM: Form for Submissions on Small Scale Methodologies and Procedures (version 03) <i>(To be used for presenting questions/proposals/amendments related to the simplified methodologies for small-scale CDM project activity categories)</i></p>	
Name:	Chang ho, Kang Institution: RCC CO., Ltd.
Affiliation ¹ :	<input type="checkbox"/> DNA <input type="checkbox"/> DOE <input checked="" type="checkbox"/> PP <input type="checkbox"/> Stakeholder
Title/Subject (max. 200 characters):	Clarification of AMS-II.C : paragraph 1 “pumping systems”
Purpose of the submission:	<input checked="" type="checkbox"/> Query on an approved SSC methodology or small scale procedures ² (Fill in field 1. below) <input type="checkbox"/> Request for Revision of an approved SSC methodology (Fill in fields 2. and 3. below) <input type="checkbox"/> Proposal for a new SSC methodology (Fill in fields 4. and 5. below)
Approved SSC methodologies ² to which your submission relates to, if applicable.	AMS-II.C. : Demand-side energy efficiency activities for specific technologies – version 13
Contact Information (e-mail addresses to which the answers are to be delivered and phone contacts for possible dialogue on the submission).	Penny02@rcc-posco.co.kr Tel : 82-70-7779-3852 Fax : 82-2-518-8009
Information for completing the form Describe the questions related to the SSC Methodologies, Modalities and Procedures below. If the questions are related to a project under development or implementation, you may describe the context in which they arose.	
<p align="center">Query on an approved SSC methodology or SSC procedures</p>	
1. If you have questions relating to the application of an approved small-scale methodology (AMS) please specify and provide reference to the exact technology/measure below. If you have questions related to procedures for SSC project activities please clarify below:	
>> Our query is related to applicability of the small-scale CDM methodology, AMS.II.C, version 13. Our company intends to perform a bundling CDM project to improve energy operation efficiency through the pump scheduling system (pump operation optimization system) by applying AMS-II.C(version 13) to this project. Regarding paragraph 1 of the methodology, “This methodology comprises activities that encourage the adoption of energy-efficient equipment/appliance (e.g., lamps, ballasts, refrigerators, motors, fans, air conditioners, pumping systems) at many sites.” We seek clarification that the content of the “pumping systems” includes our pump scheduling system. We are pursuing this project for the purpose of applying a pump scheduling system to pumping stations. Before this project, the pump was operated by relying on the use of simple pump controls and the experience of workers without the use of any special system.	

¹ Designated National Authority (DNA); Designated Operational Entity (DOE); Project Participant (PP), and Stakeholder.

² The list of all approved small-scale methodologies (AMS) can be found at <http://cdm.unfccc.int> and go to CDM: small scale CDM methodologies.

The pump scheduling system requires that parallel pump operating conditions such as water flow, head, temperature, and pressure, are to be measured by real-time. The best combination for the pump operation system will be determined by analyzing the performance of each pump (efficiency of operating combination, power unit(kWh/m³)) to reduce energy consumption. The pump scheduling system that has been applied to this project is as below



□ Scheduling System Overview

System configuration	<ul style="list-style-type: none"> ▶ hardware : monitoring equipment <ul style="list-style-type: none"> - sensor, power meter, data acquisition unit, data server ▶ software : Data processor & Pump scheduler program
Data acquisition	<ul style="list-style-type: none"> ▶ Thermodynamic efficiency measurement method (ISO 5198, Precision Class) <ul style="list-style-type: none"> - Temperature, enthalpy, specific heat, pressure, power, water flow, etc.
Main features	<ul style="list-style-type: none"> ▶ economic water supply decision support with considering water demand patterns ▶ Type of combination driving performance curve and system characteristic curve presenting ▶ real-time pump-motor efficiency and power unit monitoring ▶ real-time pump station precision diagnostics

By introducing a pump scheduling system, pump performance data can be analyzed systemically and the best operating combination can be calculated. As a result, pumping stations can reduce their power consumption.

<p>Therefore, we think that the installation of a pump scheduling system is applicable to AMS-II.C methodology-“pumping system.” In this regard, we would like to request clarification that AMS-II.C methodology is applicable to the proposed pump scheduling system.</p>	
Request for revision of an approved SSC methodology	
<p>2. If you are proposing an amendment/revision to an approved small-scale methodology (AMS), please provide justifications below:</p>	
<p>>></p>	
<p>3. If you are proposing an amendment/revision to an approved small-scale methodology (AMS) please provide the draft methodology with changes highlighted.</p>	
<p>The following documents have been attached to this form:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Draft methodology with changes highlighted in Word and PDF formats <input type="checkbox"/> PDD in PDF format (optional) <input type="checkbox"/> Additional information (please specify if you are providing any information note, published paper or a report in support of the request for revision of the SSC methodology) 	
Proposal for a new SSC methodology	
<p>4. If you are proposing a new small scale methodology, please provide justifications below:</p>	
<p>>></p>	
<p>5. For submitting a new small scale methodology a filled in form “CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)” is required.</p>	
<p>The following documents have been attached to this form:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Completely filled in form “CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)” in Word and PDF formats³ <input type="checkbox"/> A draft PDD (with sections A to C completed): <ul style="list-style-type: none"> <input type="checkbox"/> Relevant annexes to the PDD are provided <input type="checkbox"/> Additional information (please specify if you are providing any information note, published paper or a report in support of the new SSC methodology) 	
<p><i>Date you are delivering the contribution:</i></p>	
Information to be completed by the secretariat	
<p>SSC-Submission number</p>	

³ The current version of the form (F-CDM-SSC-NM) is available on the UNFCCC CDM website (<http://cdm.unfccc.int>).