# IWA AWARD on Resource Recovery Enrolment Form

Please fill in the application form below and send it back to [hong.li@iwahq.org](mailto:hong.li@iwahq.org) **BEFORE   
*30 April 2017.***

On the next page the enquiry starts. In *italic* an explanation and additional information is given. Please add your answers where **‘…’** is given.

**IWA AWARD on Resource Recovery Enrolment Form**

*Please complete this form and return it to Dr. Hong Li via email (*[*hong.li@iwahq.org*](mailto:hong.li@iwahq.org)*)* ***BEFORE 30 April 2017****.*

**Title of best practice: …**

**Your contact details:**

Name: …

Company: …

Address: …

Email: …

Phone: …

**Additional requirements for the award:**

The applicant must supply contact details of 3 external referents which can be contacted to discuss the Best Practice in Resource Recovery

1…

2…

3…

|  |  |  |
| --- | --- | --- |
| **Ref** | **Enquiry Item** | **Response information, description and remarks** |
| **1** | **Brief description:** of the best practice  **Sector** (drinking water, domestic waste water , industrial process water, industrial waste water)  *This description explains which part of the water cycle is relevant in this best practice.* | *…* |
| **2** | **Location:** Country, Place, urban or rural:  *This information will allow regional issues and general boundaries of the best practice to be accounted for in the tool.*  **Size:** total water flows and loads or population equivalent of the industry or water company:  *Size: allows any scale issues to be accounted for*  **Works Owner or Operator:** Who is the owner(s)? (Please also specify the technology provider)  Why did the owner take initiative?  What where the regulatory requirements?  *The works owner and operator may have information on underlying (local) regulation of the water industry. It is also important to understand why owner took initiative* | *…* |
| **3** | **Resource:** water, energy or components:  *Loads: This information will allow to differentiate between the three major resources: water, energy and components (nutrients, metals, etc.); please specify loads of recovered resource* | ***…*** |
| **4** | **Provider of the resource:** including economic considerations with (costs, incentives, taxes and conditions please specify quantitative data if possible):  *It is important to know the actual provider of the resource and to understand costs, taxes or incentives related to its supply.* | ***…*** |
| **5** | **Process:** physical, chemical, or biological description:  *What type of process is applied in this best practice e.g. struvite precipitation in digested sludge and upgrading struvite to a fertilizer; energy recovery by fermentation of organics present in used water; membrane technology to recycle used water.*  **Process/Plant changes:** mechanical, electrical or controls:  *Why the process is currently a best practice? Did any alterations occur during the process that enhanced resource recovery?*  **Operational Changes:** skill levels, procedures and maintenance routines:  *Operational procedures, training and priorities can affect resource recovery so any changes should be detailed here.* | *…* |
| **6** | **Risks and Dependencies:** risk assessment of project and changes.  *Brief risk assessment (matrix) covering project activities and the changes to the works from operational and strategic viewpoints.* | ***…*** |
| **7** | **Cost / Benefit analysis:** financial appraisal or payback time:  What is the price/value of the recovered resource?  *Implementation costs balanced against intended financial benefits; can be simply expressed as payback time.* | ***…*** |
| **8** | **Environmental impact:** reduction in carbon footprint  **Social impact:** analysis of the social aspects identified  *Have the impacts on the environment (social and environmental aspects) been assessed e.g. cumulative energy demand, global warming, circular sustainability* | ***…*** |
| **9** | **Project review:** What can be improved or what are the next steps?  *A project review will usually uncover areas where the project implementation could have been developed, and may show further steps that can be taken to improve the works or process.* | ***…*** |
| **10** | **Cooperation/synergies:** Did you need other partner/company/stakeholders to close the cycle of the recovered resource? *Short description*  **Barriers / bottlenecks:** Which barriers were on the way to the best practice?  *e.g. to make the business case positive, was it necessary to combine different streams? Which stakeholders are involved to complete the cycle of the recovered resource (e.g. who is buying the resource and who is using it)?* | ***…*** |