2.2 Negative impact of snowmelt agent

2.2.4 Schedule plan

1st phase March – December , 2010

1. Set up working team;

2. Survey
   - type and quantity of the snowmelt agent in use;
   - road area, snow fall;

3.Draft research plan.

2.2 Negative impact of snowmelt agent

2.2.4 Schedule plan

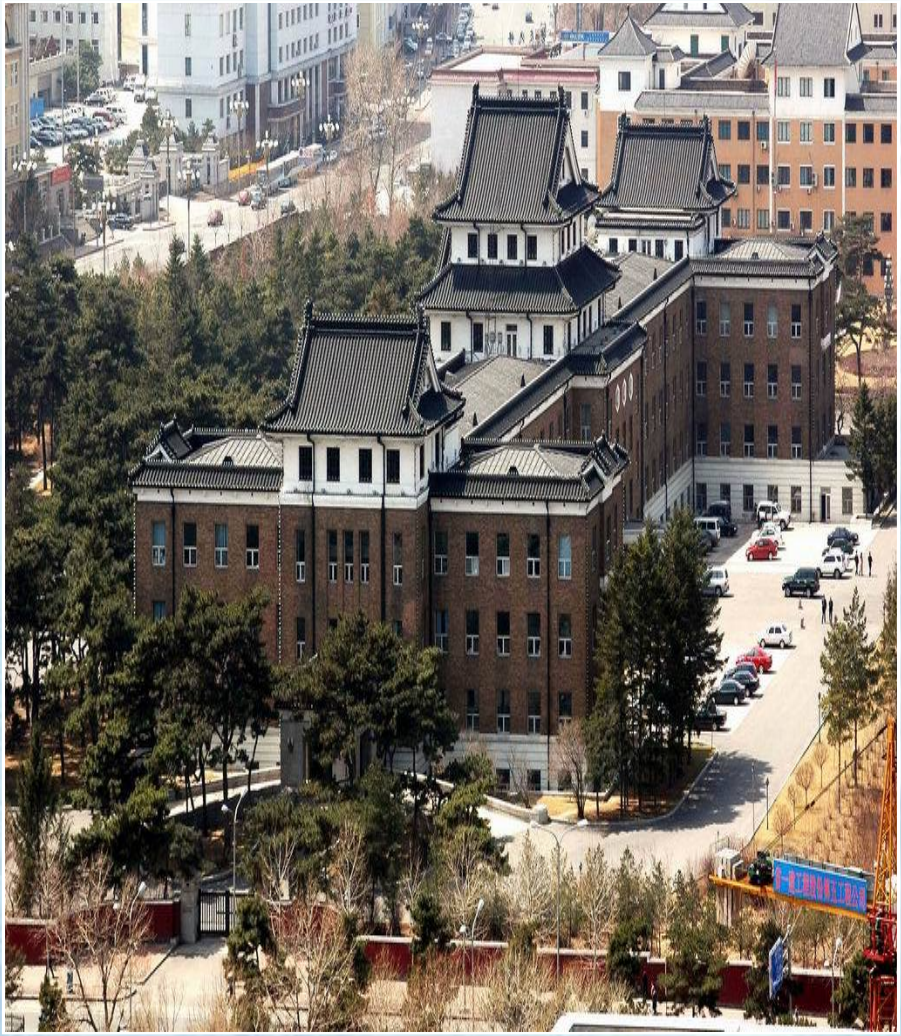
2nd phase December, 2010 – December, 2011

1.Choose sample agent to do analysis;

2.Monitor surface water;

3.Monitor groundwater;

4.Monitor soil.



2.2 Negative impact of snowmelt agent

2.2.4 Schedule plan

3rd phase January, 2012 – May, 2012

1. Summarize the impact of common snowmelt agent to the environment;

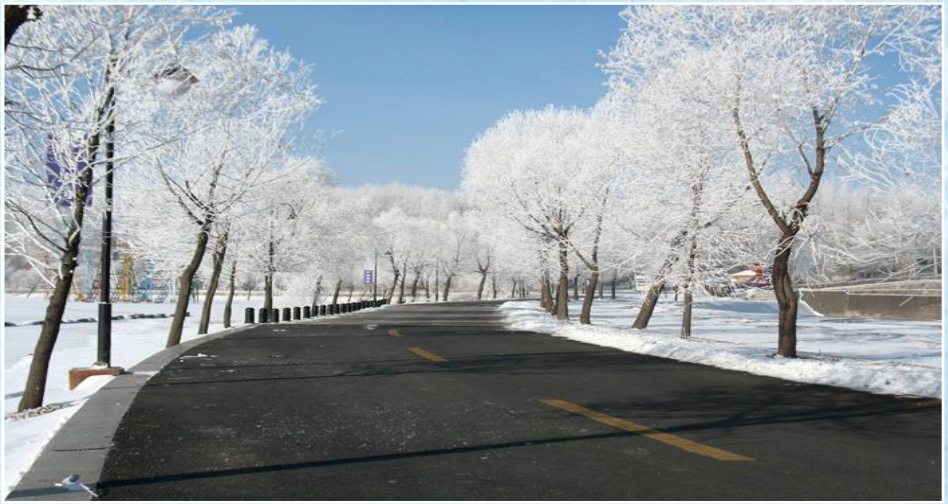
2. Anticipate the environment change and trend for using current agent.

2.2 Negative impact of snowmelt agent

2.2.4 Schedule plan

4th phase June, 2012 – June, 2013

1. Survey on new type snowmelt agent;
2. Make comparison under WWCAM frame and member cities assistance.
3. Propose suggestions.

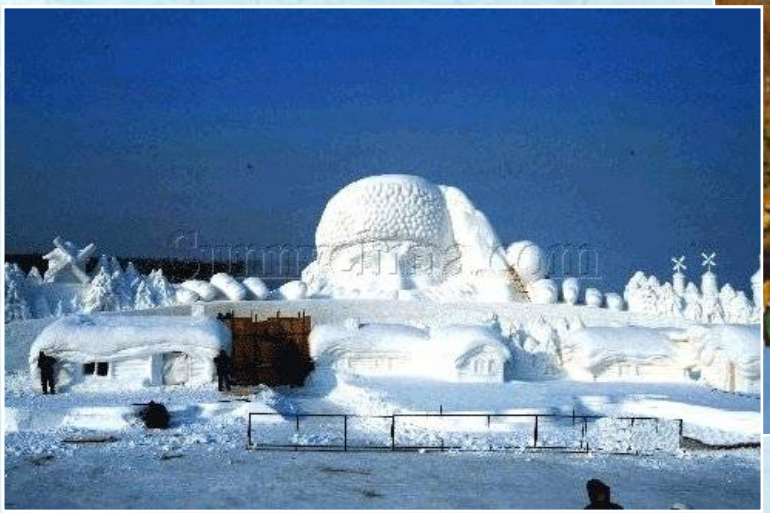


2.2 Negative impact of snowmelt agent

2.2.4 Schedule plan

5th phase June - December,2013

1.Form report;
2.Make audio, video, paper files;
3.Prepare the final report on 16th WWCAM conference.



2.2 Negative impact of snowmelt agent

2.2.5 Expected application for the research achievement

1.Know the negative impact on different type of snowmelt agent, find solutions;

2.Develop environmental friendly snowmelt agent with reasonable price.

The new products would be used by most winter cities.

3.1 Subcommittee member cities info. on the Analysis of source of particulate matters in the air

Handed out questionnaire to 19 cities of WWCAM on April, 2010.
Had reply from 9 cities of 5 countries as of May 31.

3.1 Subcommittee member cities info. on the Analysis of source of PMs in the air

3.1.1 Analysis of source of PMs in air

- Taebaek (ROK) and Novosibirsk (Russia) do not conduct related research due to their good air quality;
- Sapporo (Japan), Shenyang (China), Yuzhno-Sakhalinsk (Russia) have their plan to do the research in the future;
- Harbin, Jiamusi, Jixi (China) and Maardu (Estonia) do not have similar plan yet.

3.1 Subcommittee member cities info. on the Analysis of source of PMs in the air

3.1.2 Member cities' measure

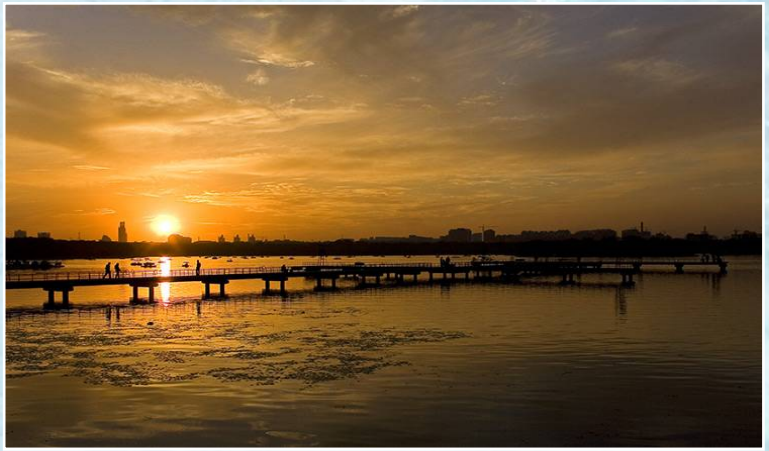
1.Change heating facilities, used clean energy;

2.Build efficient garbage incinerator, crack down illegal burning;

3.Improve public transportation system;

4.Improve management on infrastructure projects;

5.Plants trees, grassland, gardens.

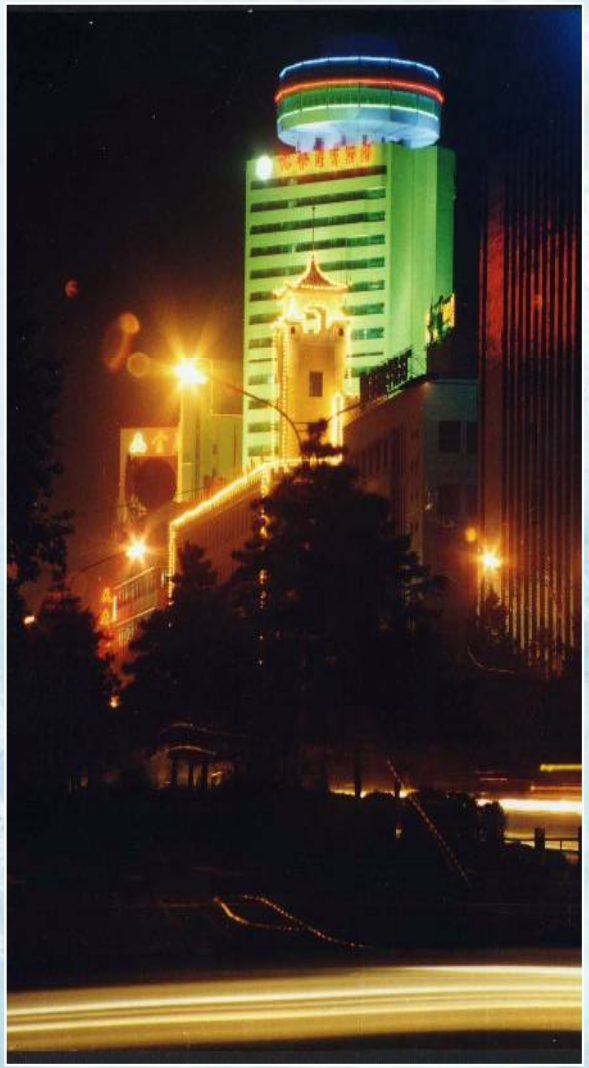


3.1 Subcommittee member cities info. on the Analysis of source of PMs in the air

3.1.3 Energy survey among member cities

* Taebaek – natural gas;
* Maardu – natural gas and cruel oil;
* Shenyang, Harbin, Novosibirsk – natural gas and coal;
* Jixi, Jiamusi – coal;
* Yuzhno-Sakhalinsk – coal and cruel oil;
* Shenyang, Harbin, Jiamusi also use geothermalenergy，Sapporo, Shenyang, Jiamusi also use electricity.

* Coal, cruel oil and natural gas are the major energy.



3.2 Subcommittee member cities info. on the negative impact of snowmelt agent

3.2.1 Cities have made related research

Shenyang, Harbin, Novosibirsk, Sapporo have made similar research.

3.2 Subcommittee member cities info. on the negative impact of snowmelt agent

3.2.2 Cities have plan to make related research

Maardu has plan to make similar research.

Safeguard measures of the research

1.Strengthen the exchange and cooperation among WWCAM member cities.

2.Apply for government financial assistance.

3.Have good partners to do the projects together.

The above are the plans for the environment protection subcommittee, looking forward to having your support!


Thank you !
Wish WWCAM-WLOM
a complete success!