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CDP Cities 2017 - Yilan County Government

Module: Introduction**Page: Introduction**

0.1

Please give a general description and introduction to your city including your city's boundary in the text box below.

Administrative boundary	Description of city
Other: Local government area within a city/metropolitan area	Yilan is a county blessed with natural beauty and a rich culture. It is home to a diverse population and the government concerned with maintaining the beauty of the county. Yilan's strength lies in its community. Through active participation and strong cooperation between its citizens and government, county decisions can be made that fulfill the needs of the county and its members. Working together, the community of Yilan will create a successful future.

0.2

Emissions Accounting Choice

Reporting emissions is optional for all cities. By checking the boxes below you are indicating that you have fuel and/or greenhouse gas (GHG) emissions data to report at this time.

Select 'Government' to report emissions from your local government operations (sometimes referred to as 'corporate' or 'municipal' emissions).

Select 'Community' to report emissions from the entire city area over which the city government can exercise a degree of influence through the policies and regulations they implement (sometimes referred to as 'geographic' or 'city-wide' emissions).

Select both boxes to report fuel and/or emissions for both inventories.

IF YOU HAVE NO FUEL AND/OR GREENHOUSE GAS EMISSIONS TO REPORT DO NOT CHECK EITHER BOX.

Community

M0.0

Would you like CDP to use the responses provided in the main questionnaire as your city's submission to the Global Covenant of Mayors for Climate and Energy (Compact of Mayors)?

My city is not participating in the Global Covenant of Mayors

Module: Governance

Page: City Details

0.3

Please provide information about your city's Mayor in the table below.

Leader title	Leader name	Current term start	Current term end	Total time in office (years)
Magistrate	Wu Ze-Cheng	2017	2018	1

0.4

Please provide details of your city's annual operating budget.

Annual operating budget	Currency	Budget year start	Budget year end

0.5

Please provide details of your city's current and projected population.

Current population	Current population year	Projected population	Projected population year
458117	2015		

0.6

Please provide details of your city's GDP.

GDP	Currency	Year of GDP	Source

0.7

Please provide further details about the geography of your city.

Average annual temperature (in Celsius)	Land area (in square km)	Average altitude (m)	Longitude (e.g. -120.9762)	Latitude (e.g. 41.25)
22.3	2143	20	121.4511	24.4518

Page: Governance

1.0

Please describe the impact of national and/or regional climate change activities on your city's own climate change activities.

People are pay attention to the energy efficiency and reduce the use of resources.

1.1

Please describe how your city manages overall responsibility for climate change mitigation (emissions reduction) and adaptation (climate risk reduction).

The government emphasis to promote the concepts of emissions reduction and climate risk reduction to the communities by courses. And we have some projects are related with these issues.

1.2

Does your city incorporate desired sustainability goals and targets (e.g. GHG reductions) into the master planning for the city?

Response	Description
Yes	

Module: Risks & Adaptation

Page: Climate Hazards

2.0

Has a climate change risk or vulnerability assessment been undertaken for your local government area?

In progress

2.0b

Please select the primary process or methodology used to undertake the risk or vulnerability assessment of your city. If your city uses a combination of methodologies, please select the main methodology used.

Primary methodology	Description
Unknown	

2.1

Do the current and/or anticipated effects of climate change present a significant risk to your city?

Yes

2.1a

Please list the most significant climate hazards currently faced by your city and indicate the probability and consequence of these hazards.

Climate hazards	Probability of hazard	Consequence of hazard
Cyclone (Hurricane/Typhoon)	Medium	Medium

2.1c

Please identify how you expect climate change to affect the frequency and intensity of the hazards faced by your city and when you expect to experience those changes.

Climate hazards	Change in frequency	Change in intensity	Anticipated timescale
Cyclone (Hurricane/Typhoon)	Increasing	Increasing	Short-term

Page: Climate Hazards II

2.1d

Please describe the magnitude of the impact of these hazards and identify three critical assets or services that may be most impacted.

Climate hazards	Magnitude of impact	Impact description	Asset or service	Asset or service	Asset or service
Cyclone (Hurricane/Typhoon)	Serious		Residential	Environment	Energy

2.2

Do you consider that the effects of climate change could threaten the ability of businesses to operate successfully in your city?

Response	Explanation
No	

Page: Adaptation

3.0

Has the Mayor or local government committed to adapting to climate change across the geographical area of the city, town or settlement?

In progress

3.1

Does your local government have a plan that addresses climate change adaptation?

In progress

3.1b

Please explain why not and/or any future arrangements you have to create a plan.

3.2

The Global Covenant of Mayors requires cities to complete [these additional questions](#) on the climate hazards affecting your city and your city's plans to adapt to these hazards. Other cities wishing to disclose further detail about their adaptation efforts are also encouraged to fill out the download.

[Click here to download the additional questions.](#)

3.3

Please describe the actions you are taking to reduce the risk to, or vulnerability of, your city's infrastructure, citizens, and businesses from climate change as identified on the previous page.

Climate hazards	Action	Action description
Cyclone (Hurricane/Typhoon)	Crisis management including warning and evacuation systems	

Page: Social Risks

4.0

Does your city face any social risks as a result of climate change?

Yes

4.0a

Please complete the table

Social risks	Anticipated timescale in years	Impact description
Fluctuating socio-economic conditions	Medium-term	
Increased risk to already vulnerable populations	Short-term	
Increased resource demand	Current	

Module: Opportunities

Page: Opportunities

5.0

Does climate change present any economic opportunities for your city?

Yes

5.0a

Please indicate the opportunities and describe how the city is positioning itself to take advantage of them.

Economic opportunity	Describe how the city is maximizing this opportunity
Development of new business industries (e.g. clean tech)	
Increased attention to other environmental concerns	

5.1

Does your city collaborate with businesses in your city on sustainability issues or projects?

Response	Description
Yes	

5.2

List any climate change-related projects for which you hope to attract private sector financing, and provide any details on the estimated overall costs and status of the project. If your city does not have any relevant projects, please select None under Project Area.

Project area	Status of project	Status of financing	Project description	Total cost of project (USD\$)	Total investment cost needed (USD\$)
Buildings	Pre-implementation	Project not financed and seeking partial financing			
Energy efficiency/retrofit	Pre-implementation	Project not financed and seeking partial financing			
Renewable energy	Operation	Project not financed and seeking full financing			

Module: Emissions - Community

Page: Community - Date and Boundary

C1.0

Please state the dates of the accounting year or 12-month period for which you are reporting a GHG measurement inventory for your community.

Wed 01 Jan 2014 - Wed 31 Dec 2014

C1.1

Please indicate the category that best describes the boundary of your community GHG emissions inventory.

Administrative boundary of a local government

Page: Community - GHG Emissions Data

C1.2

Please give the name of the primary protocol, standard or methodology you have used to calculate GHG emissions.

Primary protocol	Comment
2006 IPCC Guidelines for National Greenhouse Gas Inventories	

C1.3

Which gases are included in your emissions inventory? Tick all that apply.

CO2
PFCs
CH4
SF6
N2O
NF3
HFCs

C1.4

Please detail total (Scope 1 + Scope 2) emissions for your community, in metric tonnes CO2e and provide a comment on the level of confidence in the accuracy of your community emissions figure.

Total emissions (metric tonnes CO2e)	Attach your inventory	Level of confidence	Comment on level of confidence
8691225.04		High	

C1.5

If applicable, please provide a breakdown of your GHG emissions by scope. Where values are not available, please use the comment field to indicate the reason why.

Scope	Metric tonnes CO2e	Level of confidence	Comments
Scope 1 emissions excluding emissions from grid-supplied energy generation	6957473.31	High	
Scope 1 emissions from grid-supplied energy generation within the city boundary		High	
Total Scope 1 emissions (Row 1 + Row 2)	6957473.31	High	
Total Scope 2 emissions	1733751.73	High	

C1.6a

Where it will facilitate a greater understanding of your community's emissions, please provide a breakdown of these emissions by IPCC sector in the table below.

IPCC sector	Sector	Scope	Emissions (metric tonnes CO2e)
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C1.7

Please give the total amount of fuel (referring to Scope 1 emissions) consumed in your city during the reporting year.

Fuel	Amount	Units	End user / Economic sector / IPCC sector / Other	Sector
Coal (Lignite or Brown coal)	44751437	L		Residential buildings
Asphalt/bitumen	23169422	m3 (cubic meters)		Residential buildings

Fuel	Amount	Units	End user / Economic sector / IPCC sector / Other	Sector
Biogasoline	8768109	m3 (cubic meters)		Residential buildings
Coal (Lignite or Brown coal)	47397783	L		Residential buildings
Coal (sub-bituminous)	2828	L		Residential buildings
Vegetable oils	78	L		Residential buildings
Distillate fuel oil No 4	39221954	L		Industrial buildings
Coal (Bituminous or Black coal)	6619190	L		Industrial buildings
Coal (sub-bituminous)	1002519	L		Industrial buildings
Biogas	2656917	L		Industrial buildings
Coal (Bituminous or Black coal)	17940995	L		Industrial buildings
Coal (Brown coal briquettes or BKB)	4521950	L		Industrial buildings
Vegetable oils	20460	L		Industrial buildings
Coal (sub-bituminous)	2727340	L		Transportation
Vegetable oils	55660	L		Transportation
Coal (unknown)	206393725	L		Transportation
Coal (sub-bituminous)	123488844	L		Transportation
Vegetable oils	2520181	L		Transportation
Coal (Lignite or Brown coal)	20827830	L		Transportation
Other: Quicklime	20827830	L		Industrial buildings
Other: Lime	148726360	L		Industrial buildings

C1.8

How much electricity, heat, steam, and cooling (referring to Scope 2) has been consumed by your city during the reporting year?

Type	Amount	Units	End user / Economic sector / IPCC sector / Other	Sector
Electricity	3288443294	kWh		

C1.11

Do you measure Scope 3 emissions?

Yes

C1.11a

Please complete the table

Source of Scope 3 emissions	Emissions (metric tonnes CO ₂ e)	Comment
Water-borne navigation	77340.68	

C1.12

Please indicate if your emissions have increased, decreased, or stayed the same since your last emissions inventory, and please describe why.

Reason for change	Please describe why

Reason for change	Please describe why
Stayed the same	

Further Information

Page: Community - External Verification

C1.13

Has the GHG emissions data you are currently reporting been externally verified or audited in part or in whole?

No

C1.13b

Please describe your plans to verify your emissions in the future.

We would like not to verified.

Module: Strategy

Page: GHG Emissions Reduction - Local Government Operations

6.0

Do you have a GHG emissions reduction target in place for your local government operations?

No

6.0b

Please explain why you do not have a local government operations emissions reduction target.

We are in progressing.

6.1

What actions are you undertaking to reduce your emissions in your local government operations?

Emissions reduction activity	Anticipated emissions reduction – cumulative over the lifetime of the action (metric tonnes CO2e)	Action description

Page: GHG Emissions Reduction - Community

7.0

Does your city have a climate change action plan for reducing GHG emissions?

No

7.0b

Please describe any future plans to create a city climate change action plan.

We are in progressing.

7.1

Do you have a GHG emissions reduction target in place for your community? Tick all that apply.

No target

7.1d

Please explain why you do not have a city-wide emissions reduction target.

7.2

What actions are you undertaking to reduce emissions city-wide?

Emissions reduction activity	Anticipated emissions reduction – cumulative over the lifetime of the action (metric tonnes CO2e)	Action description

Page: Renewable Energy

8.0

Please indicate the energy mix of your electricity consumed at the city-wide scale.

Energy source	Percent
Coal	71.30%
Gas	
Oil	
Nuclear	12.50%
Hydro	6.30%
Biomass	

Energy source	Percent
Wind	4.80%
Geothermal	
Solar	5.00%
Unknown sources	

8.1

Does your city have a renewable energy or electricity target for consumption and/or production of energy?

Yes

8.1a

Please provide details of your renewable energy targets and how the city plans to meet those targets.

Scale	Energy types covered by target	Base year	Base year total renewable energy covered by target (in unit specified in column 2)	Base year percentage renewable energy of total energy or electricity	Target year	Target year total renewable energy covered by target (in unit specified in column 2)	Target year percentage renewable energy of total energy	Plans to meet target (include details on types of energy)

Page: Water Supply Risks

9.0

Do you foresee substantive risks to your city's water supply in the short or long term?

No

9.0b

Please explain why you do not consider your city to be exposed to any substantive water-related risk.

Yilan is a rainy city.

Page: Water Supply Management

Please note

If you did not select anything in the dropdown list for Q9.0 on the Water Supply Risks page, nothing will be displayed on this page.

Please go back to the Water Supply Risks page to confirm your choice or continue to the next section.

Module: Compact of Mayors

Page: COM Overview

Page: COM GHG Emissions Inventory

Page: COM GHG Emissions Reduction

Page: COM Climate Hazards

Page: COM Climate Hazards II

Page: COM Adaptation

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