

# Package ‘gfer’

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**Type** Package

**Title** Green Finance and Environmental Risk

**Version** 0.1.12

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**Description**

Focuses on data collecting, analyzing and visualization in green finance and environmental risk research and analysis. Main function includes environmental data collecting from official websites such as MEP (Ministry of Environmental Protection of China, <<https://www.mee.gov.cn>>), water related projects identification and environmental data visualization.

**Encoding** UTF-8

**License** GPL-2

**LazyData** true

**Imports** rvest, xml2, jsonlite, httr, stringi, V8, data.table, tidyr, scatterpie, ggplot2, ggrepel, circlize, googlesheets4, gsheets

**Depends** R (>= 2.10)

**RoxygenNote** 7.1.2

**URL** <https://yuanchao-xu.github.io/gfer/>

**BugReports** <https://github.com/Yuanchao-Xu/gfer/issues>

**Repository** CRAN

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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---

checkHttpStatus      *private function for check the http status*

---

**Description**

private function for check the http status

**Usage**

checkHttpStatus(ret)

**Arguments**

ret                      the response obj returned by httr package

**Value**

return nothing , but if it finds some error , it stop the script

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1.  
<https://CRAN.R-project.org/package=rstatscn>

---

cm                              *Matrix showing complicated management of China's Water Resource*

---

**Description**

Matrix showing complicated management of China's Water Resource

**Usage**

cm

**Format**

A data frame with 13 rows and 11 variables:

...

---

dataJson2df	<i>private function to convert the returned json data to a dataframe</i>
-------------	--

---

**Description**

private function to convert the returned json data to a dataframe

**Usage**

```
dataJson2df(rawObj, rowcode, colcode)
```

**Arguments**

rawObj	the fromJSON output
rowcode	rowcode in the data frame
colcode	colcode in the data frame

**Value**

the constructed data frame

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

---

GDPmix	<i>Table about GDP mix of China provinces in 2015</i>
--------	---

---

**Description**

Table about GDP mix of China provinces in 2015

**Usage**

```
GDPmix
```

**Format**

A data frame with 11 rows and 7 variables:

...

---

genDfwds	<i>private function for constructing the query parameter for dfwds</i>
----------	--

---

**Description**

private function for constructing the query parameter for dfwds

**Usage**

```
genDfwds(wdcode, valuecode)
```

**Arguments**

wdcode	string value , one of c("zb","sj","reg")
valuecode	string value , following is the table for available valuecode zb: the valudecode can be gotten by statscnQueryZb() function sj: the valudecode can be "2014" for nd db, "2014C" for jd db. reg: the valudecode is the region code fetched by statscnRegions(dbcode) function

**Value**

return the queyr string for the http request

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

---

getCSRRating	<i>get CSR rating from a website</i>
--------------	--------------------------------------

---

**Description**

get CSR rating from a website

**Usage**

```
getCSRRating(startPage, endPage, year = 2015, proxy = FALSE)
```

**Arguments**

startPage	on Which page you want to start, default is 1
endPage	On which page you want to stop scrapping
year	In which year you want the rank
proxy	whether use the proxy, default is FALSE

**Details**

Get CSR ratings and reports of different companies from <http://stockdata.stock.hexun.com/zrbg/>

**Value**

A table of CSR ratings collected from your input page

**References**

[www.hexun.com](http://www.hexun.com)

**Examples**

```
## Not run:
# get first two pages of CSR ratings in 2015
getCSRRating(1,3)

## End(Not run)
```

---

getCSRRating\_unit      *get CSR rating from a website for a unit page*

---

**Description**

get CSR rating from a website for a unit page

**Usage**

```
getCSRRating_unit(page, date, proxy = NULL)
```

**Arguments**

page	on Which page you want to scrap
date	represents the date is until which date, usually it's the last day of a year e.g., "2015-12-31" for the date of year 2015, "2014-12-31" for the date of year 2014
proxy	whether use the proxy, default is FALSE

**Details**

Get CSR ratings and reports of different companies from <http://stockdata.stock.hexun.com/zrbg/>

**Value**

A table of CSR ratings collected from your input page

**References**

[www.hexun.com](http://www.hexun.com)

---

getENNames                    *get a company's EN names*

---

### **Description**

get a company's EN names

### **Usage**

```
getENNames(tickers)
```

### **Arguments**

tickers                    ticker/sympol of a company, TICKERS MUST BE CHARACTERS, '006027'  
INSTEAD OF '6027'

### **Details**

Data comes from hexun.com

### **Value**

A data table with companies' EN names

### **References**

<http://hexun.com>

### **Examples**

```
## Not run:  
getENNames(601857)  
  
## End(Not run)
```

getENNames\_unit      *get a company's English name*

---

**Description**

get a company's English name

**Usage**

```
getENNames_unit(ticker)
```

**Arguments**

ticker      ticker/sympol of a company, MUST BE A CHARACTER, '006027' INSTEAD OF '6027'

**Details**

Data comes from hexun.com

**Value**

A data table with companies' EN names

**References**

<http://hexun.com>

---

getExchange      *get a company's listed location*

---

**Description**

get a company's listed location

**Usage**

```
getExchange(tickers)
```

**Arguments**

tickers      ticker/sympol of a company, TICKERS MUST BE CHARACTERS, '006027' INSTEAD OF '6027'

**Details**

Data comes from [www.finance.sina.com.cn](http://www.finance.sina.com.cn)

**Value**

A data table with a listed companies' ticker, security name and listed exchange location

**References**

www.finance.sina.com.cn

**Examples**

```
## Not run:  
getExchange('600601')  
getExchange(c('00005', '00001'))  
  
## End(Not run)
```

---

getHisMktCap	<i>get a company's historical market cap, data comes from NetEase</i>
--------------	---

---

**Description**

get a company's historical market cap, data comes from NetEase

**Usage**

```
getHisMktCap(tickers, date1, date2)
```

**Arguments**

- tickers            ticker/sympol of a company, TICKERS MUST BE CHARACTERS, '006027' INSTEAD OF '6027'
- date1            starting date, in the following format "20160101", means Jan 1st of 2016
- date2            ending date, in the following format "20160101", if you only want one day's data, just set starting date and ending date the same day

**Details**

The input date interval should have at least one work day Data comes from www.money.163.com

**Value**

A data table with companies total capitalization and market capitalization

**References**

www.money.163.com

**Examples**

```
## Not run:  
getHisMktCap(601857, '20161202', '20161203')  
  
## End(Not run)
```

---

getHisMktCap_unit	<i>get a company's historical market cap, data comes from NetEase</i>
-------------------	---

---

**Description**

get a company's historical market cap, data comes from NetEase

**Usage**

```
getHisMktCap_unit(ticker, date1, date2)
```

**Arguments**

ticker	ticker/sympol of a company, MUST BE A CHARACTER, '006027' INSTEAD OF '6027'
date1	starting date, in the following format "20160101", means Jan 1st of 2016
date2	ending date, in the following format "20160101", if you only want one day's data, just set starting date and ending date the same day

**Details**

Data comes from [www.money.163.com](http://www.money.163.com)

**Value**

A data table with companies total capitalization and market capitalization

**References**

[www.money.163.com](http://www.money.163.com)

---

getIndex	<i>get a company's market cap, data comes from NetEase</i>
----------	--

---

### Description

get a company's market cap, data comes from NetEase

### Usage

```
getIndex(tickers, indexData)
```

### Arguments

tickers	ticker/symbol of a company, MUST BE A CHARACTER, e.g., input "006600" instead of 006600 The tickers have to be FULL AND EXACT, e.g., for Shanghai exchange and Shenzhen exchange, the input must have 6 digits, and for HK exchange, it must have 5 digits. the '0' in the beginning cannot be left out.
indexData	the index information, before running getIndex, indexData needs to be loaded using <a href="#">getIndexData</a>

### Details

Data comes from [www.finance.sina.com.cn](http://www.finance.sina.com.cn) and [www.etnet.com.hk](http://www.etnet.com.hk)

### Value

A data table with companies and which index they are included

### References

[www.finance.sina.com.cn](http://www.finance.sina.com.cn) [www.etnet.com.hk](http://www.etnet.com.hk)

### Examples

```
## Not run:  
indexData <- getIndexData()  
getIndex(600601, indexData)  
  
## End(Not run)
```

---

getIndexConstnt      *get a company's market cap, data comes from NetEase*

---

**Description**

get a company's market cap, data comes from NetEase

**Usage**

getIndexConstnt(indexPool)

**Arguments**

indexPool      a pool of different index, special format for gfer

**Value**

A data table with companies total capitalization and market capitalization

---

getIndexData      *get index information Currently include CSI 100, SSE 50, CSI 300, SSE Central SOEs 50, HSI, HSCEI*

---

**Description**

get index information Currently include CSI 100, SSE 50, CSI 300, SSE Central SOEs 50, HSI, HSCEI

**Usage**

getIndexData()

**Value**

a data table containing index information

---

getNBS	<i>getNBS</i>
--------	---------------

---

**Description**

get National Bureau of Statistics data

**Usage**

```
getNBS(indicator, start, end)
```

**Arguments**

indicator	of which data is fetched, indicator includes 'GDP', 'water resources', 'water use' and 'wastewater', etc.
start	starting year of data wanted
end	end year of data wanted, make sure your input end year exists in the NBS website

**Value**

no return

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

---

getPPPList	<i>get PPP list from an official website</i>
------------	--

---

**Description**

get PPP list from an official website

**Usage**

```
getPPPList(startPage = 1, endPage, proxy = FALSE)
```

**Arguments**

startPage	on Which page you want to start, default is 1
endPage	On which page you want to stop scrapping
proxy	whether proxy will be used, default is FALSE

**Details**

Get PPP list from the Ministry of Finance of China (<http://www.cpppc.org:8082/efmisweb/ppp/projectLibrary/toPPPList.do?>) to view the listed projects in the PPP library.

**Value**

A table of PPP projects collected from your input page

**References**

[www.cpppc.org](http://www.cpppc.org)

**Examples**

```
## Not run:
#scrape the first two pages
getPPPList(1,3)

## End(Not run)
```

---

getPPPList_unit	<i>get PPP list from a single page</i>
-----------------	--

---

**Description**

get PPP list from a single page

**Usage**

```
getPPPList_unit(page, proxy = NULL)
```

**Arguments**

page	The page number
proxy	if you want to use a proxy to avoid blocking, you can input a proxy, otherwise leave it blank.

**Value**

A table of PPP projects collected from your input page

---

getProxy	<i>Get proxy pool from free proxy provider</i>
----------	--

---

**Description**

Get proxy pool from free proxy provider

**Usage**

```
getProxy()
```

**Details**

Extract proxies from <http://www.free-proxy-list.net/>, in case of the risk of being blocked by the scrapped website

**Value**

The sum of x and y.

**References**

[www.free-proxy-list.net](http://www.free-proxy-list.net)

---

getStockList	<i>Get information from Shanghai Exchange and Shenzhen Exchange. This will only get stock information in Shanghai Exchange and Shenzhen Exchange Including stocker ticker, stock name and company full name. Data comes from China Merchants Bank</i>
--------------	---

---

**Description**

Get information from Shanghai Exchange and Shenzhen Exchange. This will only get stock information in Shanghai Exchange and Shenzhen Exchange Including stocker ticker, stock name and company full name. Data comes from China Merchants Bank

**Usage**

```
getStockList()
```

**References**

<http://info.cmbchina.com/Stock/Single/>

---

getTickers	<i>get ticker by input a company's full name or a list of companies' full name</i>
------------	--

---

**Description**

It can also be a way to test if a company is listed NOTE: If a company is listed in multiple exchange, then it needs double check, the programe only chooses ticker from random exchange

**Usage**

```
getTickers(corpNames)
```

**Arguments**

corpNames	Full name of a company, should be full name
-----------	---

**Details**

Data comes from [www.cninfo.com.cn/](http://www.cninfo.com.cn/)

**Value**

A data table with companies stock name and stock ticker

**References**

[www.cninfo.com.cn](http://www.cninfo.com.cn)

---

getTickers_unit	<i>get ticker by input a company's full name</i>
-----------------	--

---

**Description**

It can also be a way to test if a company is listed

**Usage**

```
getTickers_unit(corpName)
```

**Arguments**

corpName	Full name of a company
----------	------------------------

**Details**

Data comes from [www.cninfo.com.cn/](http://www.cninfo.com.cn/)

**Value**

A data table with companies stock name and stock ticker

---

*getWaternomicsData\_goog*  
*getWaternomicsData\_goog*

---

**Description**

Get NBS data from google sheet by shared link. Default link is provided by gfer, you can also create your own google sheet of GDP. NOTE: The 'link sharing on' of the sheet must be ticked in order to read

**Usage**

*getWaternomicsData\_goog()*

---

*getWaternomicsData\_NBS*  
*getWaternomicsData\_NBS*

---

**Description**

Get NBS data from NBS website.

**Usage**

*getWaternomicsData\_NBS(start, end)*

**Arguments**

*start*                    starting year of data wanted  
*end*                        end year of data wanted, make sure your input end year exists in the NBS website

---

getWaterQ\_MEP\_all      *get PPP list from a single page*

---

### Description

get PPP list from a single page

### Usage

```
getWaterQ_MEP_all(year, week, station1, station2, proxy = FALSE)
```

### Arguments

year	In which year you would like to scrape
week	In which week you would like to scrape, can be an array, like 3:5
station1	the start station index on the page
station2	the end station index on the page
proxy	Whether to use proxy, default is FALSE

### Details

Get monitoring data of different stations from Ministry of Environmental Protection of China (<http://datacenter.mep.gov.cn/report/getCountGraph.do?type=runQianWater>). Using this function you will get data of all the stations. Since the number of stations vary with time, using this function, you have to make sure that within the period you are scrapping, the number of stations keep consistant.

### References

<http://datacenter.mee.gov.cn/report/getCountGraph.do?type=runQianWater>

### Examples

```
## Not run:  
# get data from 1st station to 5th station of the 3rd week of 2016  
a <- getWaterQ_MEP_all(2016, 3, 1, 5)
```

```
## End(Not run)
```

---

```
getWaterQ_MEP_all_unit
    get PPP list from a single page
```

---

**Description**

get PPP list from a single page

**Usage**

```
getWaterQ_MEP_all_unit(year, week, station1, station2, proxy = NULL)
```

**Arguments**

year	In which year you would like to scrape
week	In which week you would like to scrape
station1	the start station index on the page
station2	the end station index on the page
proxy	if you want to use a proxy to avoid blocking, you can input a proxy, otherwise leave it blank.

**Value**

A table of PPP projects collected from your input page

**References**

<http://datacenter.mee.gov.cn/report/getCountGraph.do?type=runQianWater>

---

```
is.listed          Check if a company is listed in Chinese stock market
```

---

**Description**

Check if a company is listed in Chinese stock market

**Usage**

```
is.listed(corpList, stockList)
```

**Arguments**

corpList	company list you want to check if listed, should be a dataframe
stockList	Result from <a href="#">getStockList</a>

**References**

<http://info.cmbchina.com/Stock/Single/>

---

milSec	<i>private function for sec</i>
--------	---------------------------------

---

**Description**

private function for sec

**Usage**

```
milSec()
```

**Value**

milsec

---

plotChord	<i>plotScatterPie</i>
-----------	-----------------------

---

**Description**

if 'Summation of cell padding on y-direction are larger than the height of the cells' appears, just enlarge the xlim or ylim accordingly

**Usage**

```
plotChord(  
  data,  
  t = FALSE,  
  ifsep = TRUE,  
  trans = 0.3,  
  highlight = NULL,  
  xlim = c(-1, 1),  
  ylim = c(-1, 1)  
)
```

**Arguments**

data	a dataframe showing different management intersections. See the data frame in the example
t	is transpose the dataframe, by default, lines flow from row to column, if t == TRUE, lines will flow from columns to rows. Once transposed,
ifsep	if separate row and col categories in the chart, default is TRUE
trans	transparency of the chart's lines, default is 0.3
highlight	a string or string array of highlighted items, MUST be selected from first column (which represents names) or colnames. if highlight has more than 2 items, they should belong to same category, either colnames, or names. One name and one column name is not allowed.
xlim	x limit of the chart, default is c(-1, 1)
ylim	y limte of the chart, default is c(-1, 1)

**Details**

plot scatter pie chart for multidimension analysis, such as waternomics. This plot can provide information about water use/wastewater of each provinces and GDP mix of each provinces, see examples.

**Examples**

```
## Not run:
plotChord(cm)
plotChord(cm, t = T)
plotChord(cm, highlight = 'MEP')
plotChord(cm, highlight = 'Investment')

## End(Not run)
```

---

plotScatterPie

*plotScatterPie*


---

**Description**

plot scatter pie chart for multidimension analysis, such as waternomics. This plot can provide information about water use/wastewater of each provinces and GDP mix of each provinces, see examples.

**Usage**

```
plotScatterPie(
  data,
  pieRange,
  pieColor = NULL,
  xmeanLine = TRUE,
  ymeanLine = TRUE,
  label_on = TRUE,
  output = FALSE
)
```

**Arguments**

<code>data</code>	a dataframe with colnames x, y, r, label, these four names must be in colnames.
<code>pieRange</code>	define which column to which column to be presented by pie chart, see examples
<code>pieColor</code>	color for different colors in pie chart
<code>xmeanLine</code>	if plot x mean line
<code>ymeanLine</code>	if plot y mean line
<code>label_on</code>	Whether to show label
<code>output</code>	if you want an ggplot object as output, default is FALSE

**Examples**

```
GDPColor_CWR <- c("#6B8033", "#020303", "#0D77B9")

data(GDPmix)

# in colnames(GDPmix), there must be x, y, r, label.
# but right now, GDPmix has x, y, r, but lacks a label column, let's assign label to province column
colnames(GDPmix)[1] <- 'label'

## Not run:
plotScatterPie(GDPmix, pieRange = 4:6, pieColor = GDPColor_CWR)

## End(Not run)
```

---

 statscnDbs

*the available dbs*


---

**Description**

the available dbs in the national db

**Usage**

```
statscnDbs()
```

**Value**

a data frame with 2 columns , one is the dbcode, another is the db description

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1.  
<https://CRAN.R-project.org/package=rstatscn>

**Examples**

```
## Not run:
statscnDbs()

## End(Not run)
```

---

statscnQueryData	<i>query data in the statscn db</i>
------------------	-------------------------------------

---

**Description**

the main function for querying the statscn database, it will retrieve the data from specified db and organize the data in a data frame.

**Usage**

```
statscnQueryData(
  zb = "A0201",
  dbcode = "hgnd",
  rowcode = "zb",
  colcode = "sj",
  moreWd = list(name = NA, value = NA)
)
```

**Arguments**

zb	the zb/category code to be queried
dbcode	the db code for querying
rowcode	rowcode in the returned data frame
colcode	colcode in the returned data frame
moreWd	more constraint on the data where the name should be one of c("reg","sj") , which stand for region and sj/time. the valuecode for reg should be the region code queried by statscnRegions() the valuecode for sj should be like '2014' for *nd , '2014C' for *jd , '201405' for *yd. Be noted that , the moreWd name should be different with either rowcode or colcode

**Value**

the data frame you are quering

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

**Examples**

```
## Not run:
df <- statscnQueryData('A0201', dbcode = 'hgnd')
df <- statscnQueryData('A0201', dbcode = 'fsnd', rowcode = 'zb', colcode = 'sj',
                      moreWd = list(name = 'reg', value = '110000'))

## End(Not run)
```

---

statscnQueryLastN      *fetch the lastN data*

---

**Description**

fetch the lastN data for the latest query, only affect the number of rows in the returned data. This function can not be used alone , statscnQueryData() has to be called before this function

**Usage**

```
statscnQueryLastN(n)
```

**Arguments**

n                      the number of rows to be fetched

**Value**

the last n rows data in the latest query

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

**Examples**

```
## Not run:  
df=statscnQueryData('A0201',dbcode='hgnd')  
df2=statscnQueryLastN(20)  
  
## End(Not run)
```

---

statscnQueryZb	<i>the data categories</i>
----------------	----------------------------

---

**Description**

the sub data categories for the zbid category, dbcode need to be specified, where the dbcode can be fetched by function statscnDbs(). In the returned data frame, the column 'isParent' shows if each sub category is leap category or not

**Usage**

```
statscnQueryZb(zbid = "zb", dbcode = "hgnd")
```

**Arguments**

zbid	the father zb/category id , the root id is 'zb'
dbcode	which db will be queried

**Value**

the data frame with the sub zbs/categories , if the given zbid is not a Parent zb/category, null list is returned

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1.  
<https://CRAN.R-project.org/package=rstatscn>

**Examples**

```
## Not run:  
statscnQueryZb()  
statscnQueryZb('A01',dbcode="hgnd")  
  
## End(Not run)
```

---

statscnRegions	<i>the regions in db</i>
----------------	--------------------------

---

**Description**

the available regions in the specified db, it is used for query the province, city and country code generally

**Usage**

```
statscnRegions(dbcode = "fsnd")
```

**Arguments**

dbcode            the dbcode should be some province db(fs\*) , city db(cs\*) or international db(gj\*)

**Value**

the data frame with all the available region codes and names in the db

**References**

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

**Examples**

```
## Not run:
statscnRegions('fsnd')
statscnRegions('csnd')
statscnRegions('gjnd')

## End(Not run)
```

---

statscnRowNamePrefix	<i>statscnRowNamePrefix</i>
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---

**Description**

set the rowName prefix in the dataframe

### Usage

```
statscnRowNamePrefix(p = "nrow")
```

### Arguments

`p` , how to set the rowname prefix. it is 'nrow' by default , and it is the only supported value currently to unset the row name prefix, call this function with `p=NULL`

### Details

in case you encounter the following error: Error in 'row.names<-.data.frame'(\*tmp\*, value = value): duplicate 'row.names' are not allowed you need to call this function

### Value

no return

### References

Xuehui YANG (2016). rstatscn: R Interface for China National Data. R package version 1.1.1. <https://CRAN.R-project.org/package=rstatscn>

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