

How to Make an Analysis of Electrical Disaster Statistics



International cooperation

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Symposium Fisuel – Maroc – 11 & 12 Mai 2016

Fisuel Symposium – Morocco – 11th & 12th of May, 2016

CONTENT



M ISSION

Field Research

Statistical Analysis



Mission

Protect

People's Lives

Property



Progress of Electrical Fire

Year	2010	2011	2012	2013	2014	2015
Share (%)	22.6	21.7	21.3	21.3	19.7	17.5

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Mission



Field Research

Statistical Analysis

The Method to Detect Electrical Fire



Fireman put off the Fire



The Method to Detect Electrical Fire



NFS



Fire station



Police



The Method to Detect Electrical Fire



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Organizations of Fire Investigation

Investigation Organization	Legal Basis	Note
Fire Station	<ul style="list-style-type: none"> o Fire Basic Law <ul style="list-style-type: none"> - Fire Investigation 	Fire Data
Police	<ul style="list-style-type: none"> o Criminal Law <ul style="list-style-type: none"> - Crime of Accidental & Incendiary Fire 	Criminal Investigation
KESCO	<ul style="list-style-type: none"> o Electric Utility Act <ul style="list-style-type: none"> - Investigation & Research of Electrical Safety 	Prevention & Public Relation
KGS (Korea Gas Safety Corporation)	<ul style="list-style-type: none"> o Control Act of Petroleum gas Safety & Business <ul style="list-style-type: none"> - Investigation, Report, Notification of Accident 	Compensation
Insurance Company	<ul style="list-style-type: none"> o Law on Insurance & Accident Compensation <ul style="list-style-type: none"> - Safety Check 	Benefit Payment



How to Make Statistical Analysis

Process

After getting results,

- 1. Make a final report**
- 2. Report Collection in
Fire & Disaster Headquarters**
- 3. Release to the public(NFDS)**
- 4. KESCO publishes
Statistical Analysis from NFDS**



Mission



Field Research



Statistical Analysis

Written Statement & Final Report (Sample)

Revision : 2009.12.27, 2007.3.22)

Written Statement(Sample)

No.	00155	Company	KESCO
		Name	Aiden
		Lis	(Sign)
① Date and Place	Mar. 30, 2016 Gong-ro, Iseo-syeon WanJu-Gun Jeollabuk-do		
② Statement Date	Mar. 30, 2016		
③ Statement Place	Conference Room at Fire Station		
④ Witness Information	Address	Tel	
	Job	Business	
	Name	Dennis	
⑤ Relation with Place	Witness		
⑥ When?	Right before I called		
⑦ Where?	Pass the place		
⑧ What to do?	Drive		
⑨ How to recognize?	See the smoke.		
⑩ Status?	Smoke goes up from the place.		
⑪ What did you do?	Call for 911		
⑫ Remark			

Final Report

Year Month Date :
 No. Departure Time : Arrival Time :

[1] Name & Respondent

① Name :
 ② Respondent :
 ③ Chief : _____ (서명)

[2] Witnessing

- ① Flame Color Red Orange Yellow Blue ETC
 ② Smoke Color Black Dark Gray Gray White ETC
 ③ Flame Size Small Normal Big Very Big
 ④ Smoke Amount Small Normal Much Too much
 ⑤ Flame & Smoke 화염만 발견 연기만 발견 화염과 연기 발견
 ⑥ Smell O X

[3] The place and type for First Aid

Remove Fire Ventile Rescue First Aid

① Start Point

② State of Fire



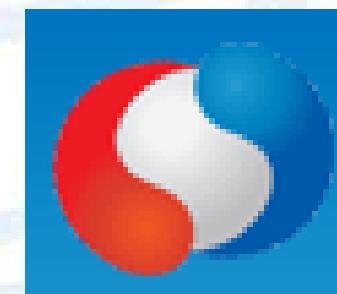
How to Make Statistical Analysis



**Fire Station
Branch**



**Fire & Disaster
Headquarters**



NFDS



119 Emergency | **Fire Statistics** | **Common Knowledge** | **Feedback** | **Public** | **NFDS**

Fire status Statistics | **Progress of Fire Analysis** | **E -Fire Statistics**



Emergency : 08 : 24 : 31
Incheon



Details of Fire Statistics

Basic Status	Day Month Year	Damage	Region	Cause Of Fire	Fire of Forests & Field	Emergency Status
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화재현황통계

기본현황 일/월/년 피해액별 장소별 발화요인별 임야화재 출동현황 발화요인소분류 화재피해경감

시/도 소방관서 시도별/인구대비

기간 2016-02-01 ~ 2016-02-29 조건 시/도 시/군/구

조회



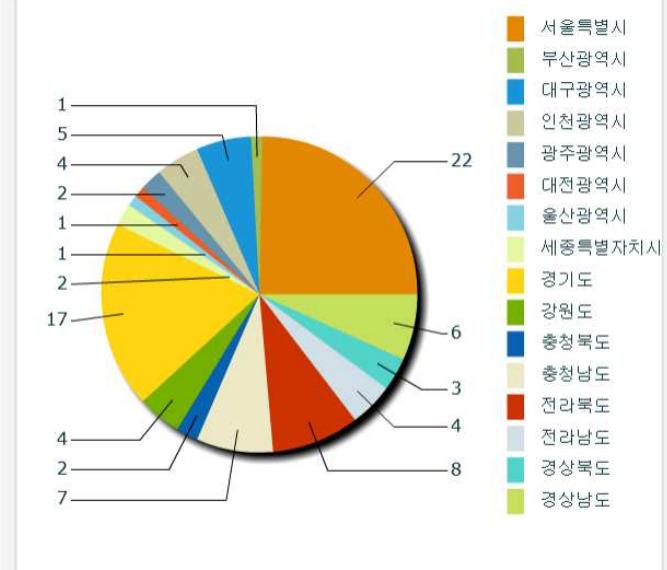
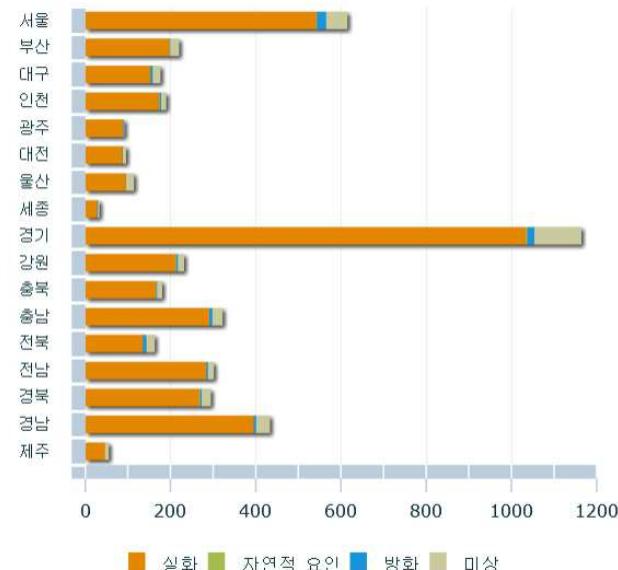
Details of Fire Statics

The Number of Fire by Region

The Number of Arson by Region

지역별 화재건수

지역별 방화건수





How to Use Analysis



Engineering Service

**Study for
A Diagnosis Method**

**Research for
Fire Detection**



Details of Statistical Analysis

- How to get information about weather, region and so on?
All information is from final report.
- What is the definition of “Electrical Cause” ?
All accidents from Electrical Accidents
(ex) Short, Leakage Current, Overload, Contact Failure etc.
- **KESCO has already published Issue 24 “A statistical Analysis on the Electrical Accident” and makes an effort to publish it.**



THANK YOU

MERCI



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